

=> d his

(FILE 'HOME' ENTERED AT 14:39:49 ON 18 SEP 2002)

L1 FILE 'REGISTRY' ENTERED AT 14:39:57 ON 18 SEP 2002  
L2 STRUCTURE UPLOADED  
L3 1027 S L1 FUL  
L4 798 S L2 AND CAPLUS/LC  
L5 STRUCTURE UPLOADED  
L6 202 S L4 FUL SUB=L2  
L7 164 S L5 AND CAPLUS/LC

L7 FILE 'CAPLUS' ENTERED AT 14:46:16 ON 18 SEP 2002  
18 S L6 FUL

L8 FILE 'REGISTRY' ENTERED AT 14:47:42 ON 18 SEP 2002  
L9 634 S L3 NOT L6  
L10 STRUCTURE UPLOADED  
L11 609 S L9 FUL

=> s l10 and caplus/lc  
24503186 CAPLUS/LC  
L11 431 L10 AND CAPLUS/LC

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
161.60	426.73

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-11.15

CA SUBSCRIBER PRICE

FILE 'CAPLUS' ENTERED AT 14:50:29 ON 18 SEP 2002  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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FILE COVERS 1907 - 18 Sep 2002 VOL 137 ISS 12

FILE LAST UPDATED: 17 Sep 2002 (20020917/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s py>2000

L12 1648093 PY>2000

=> s l11 not py>2000

107 L11

1648093 PY>2000

L13 99 L11 NOT PY>2000

=> d 1-99 ibib abs hitstr

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	441.33	868.06
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-61.33	-72.48

STN INTERNATIONAL LOGOFF AT 14:56:03 ON 18 SEP 2002

=> d his

(FILE 'HOME' ENTERED AT 14:39:49 ON 18 SEP 2002)

FILE 'REGISTRY' ENTERED AT 14:39:57 ON 18 SEP 2002  
L1 STRUCTURE UPLOADED  
L2 1027 S L1 FUL  
L3 798 S L2 AND CAPLUS/LC  
L4 STRUCTURE UPLOADED  
L5 202 S L4 FUL SUB=L2  
L6 164 S L5 AND CAPLUS/LC

FILE 'CAPLUS' ENTERED AT 14:46:16 ON 18 SEP 2002  
L7 18 S L6 FUL

FILE 'REGISTRY' ENTERED AT 14:47:42 ON 18 SEP 2002  
L8 634 S L3 NOT L6

=>

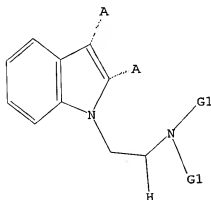
Uploading 10009568.str

L9 STRUCTURE UPLOADED

=> d

L9 HAS NO ANSWERS

L9 STR



G1 H,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l9 ful

FULL SEARCH INITIATED 14:49:47 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 67804 TO ITERATE

100.0% PROCESSED 67804 ITERATIONS  
SEARCH TIME: 00.00.12

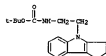
609 ANSWERS

L10

609 SEA SSS FUL L9

=> d 1-5

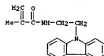
LS ANSWER 1 OF 634 REGISTRY COPYRIGHT 2002 ACS  
 NM 43330-43-2 REGISTRY  
 CM Carboxylic acid, [2-(2,3-dihydrocyclopent[b]indol-4-yl)ethyl]-,  
 1,1-dimethyl-  
 PS 30 COMCORD  
 MF C18 H24 N2 O2  
 SM CA  
 SC STN Files: CA, CAPLUS, TOXCENTER



\*\*PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT\*\*  
 1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

LS ANSWER 2 OF 634 REGISTRY COPYRIGHT 2002 ACS  
 NM 410523-18-3 REGISTRY  
 CM 3-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-,  
 monosodium  
 PS 30 COMCORD  
 MF C10 H16 N2 O4 S  
 SM CA  
 SC STN Files: CA, CAPLUS

OTHER NAMES:  
 CM 2-[(3-carboxyl-3-yl)ethyl]-2-methyl-2-propenamide  
 (ICI) (CA INDEX NAME)  
 OTHER NAMES:  
 CM 2-[(3-carboxyl-3-yl)ethyl]amidesodium 2-acrylamide-2-  
 methylpropanesulfonate copolymer  
 MF C10 H16 N2 O4 S  
 SM CA  
 SC STN Files: CA, CAPLUS



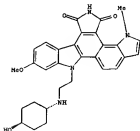
CM 2  
 CM 3165-97-9 (15214-89-6)  
 MF C7 H13 N O4 S . Na



● Na  
 1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

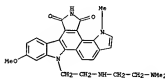
LS ANSWER 3 OF 634 REGISTRY COPYRIGHT 2002 ACS  
 NM 40350-55-9 REGISTRY  
 CM N-Indole[6,7-c]pyrrole[3,4-c]carbazole-4,6(8H,11H)-dione,  
 11-[2-[(trans-4-hydroxycyclohexyl)amino]ethyl]-3-methoxy-3-methyl-  
 (ICI) (CA INDEX NAME)  
 PS STEREOSEARCH  
 MF C28 H28 N4 O4  
 SM CA  
 SC STN Files: CA, CAPLUS, TOXCENTER

Relative stereochemistry.



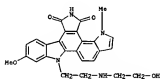
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

LS ANSWER 4 OF 634 REGISTRY COPYRIGHT 2002 ACS  
 NM 40350-55-9 REGISTRY  
 CM 3H-Indole[6,7-c]pyrrole[3,4-c]carbazole-4,6(8H,11H)-dione,  
 11-[2-[(2-(dimethylamino)ethyl)amino]ethyl]-9-methoxy-3-methyl-  
 (ICI) (CA INDEX NAME)  
 MF C28 H28 N6 O3  
 SM CA  
 SC STN Files: CA, CAPLUS, TOXCENTER



1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

LS ANSWER 5 OF 624 REGISTRY COPYRIGHT 2002 ACS  
 PW 408355-57-1 REGISTRY  
 CN 30-indole[6,7-g]pyrrolo[3,4-c]carbazole-4,6-dihydro-11B-dione,  
 11-[2-[(2-hydroxyethyl)amino)ethyl]-5-methoxy-3-methyl- (PCI) (CA)  
 INDEX  
 NAME  
 MF C26 H24 N4 O4  
 DS  
 CA  
 IC STN Files: CA, CANLUS, TOXCENTER



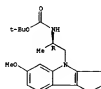
1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CANLUS (1967 TO DATE)

L10 ANSWER 1 OF 609 REGISTRY COPYRIGHT 2002 ACS  
 NM 440279-56-4 REGISTRY  
 CM 85-Benzo[a]naphthene, 11-(2-hydroxy-1-methyl-6,11-dihydro- [9CI] (CA INDEX NAME)  
 PS 30 CONCORD  
 MF C18 H24 O2  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER



\*\*PROPERTY DATA AVAILABLE IN THE 'PBCF' FORMAT\*\*

L10 ANSWER 2 OF 609 REGISTRY COPYRIGHT 2002 ACS  
 NM 433323-70-1 REGISTRY  
 CM Carbanic acid,  
 [(1R)-2-(2,3,4-dihydro-6-methoxycyclopent[bi]indol-4(1H)-yl)-1-methyl-1-yl]-1,1-dimethylethyl ester (9CI) (CA INDEX NAME)  
 PS STEREOSEARCH  
 MF C20 H28 N2 O3  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER  
 Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PBCF' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

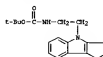
L10 ANSWER 3 OF 609 REGISTRY COPYRIGHT 2002 ACS  
 NM 433323-62-2 REGISTRY  
 CM Carbanic acid,  
 [(1R)-2-(6-chloro-3-fluoro-2,3-dihydrocyclopent[bi]indol-4(1H)-yl)-1-methylethyl]-1,1-dimethylethyl ester (9CI) (CA INDEX NAME)  
 PS STEREOSEARCH  
 MF C19 H24 Cl F N2 O2  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER  
 Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PBCF' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L10 ANSWER 4 OF 609 REGISTRY COPYRIGHT 2002 ACS  
 NM 433323-62-2 REGISTRY  
 CM Carbanic acid, [2-(2,3-dihydrocyclopent[bi]indol-4(1H)-yl)ethyl]-1,1-dimethylethyl ester (9CI) (CA INDEX NAME)  
 PS 30 CONCORD  
 MF C18 H24 N2 O2  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER



\*\*PROPERTY DATA AVAILABLE IN THE 'PBCF' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

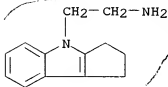
L19 ANSWER 1 OF 609 REGISTRY COPYRIGHT 2002 ACS  
M 430101-12-5 REGISTRY  
CN 1H-Carbazole, 9-[(diethylamino)acetyl]-2,3,4,9-tetrahydro- (9CI) (CA  
INCHI NAME)  
FS 3D CONCORD  
MF C18 H24 N2 O  
SR Chemical Library



\*\*PROPERTY DATA AVAILABLE IN THE 'SPQ3' FORMAT\*\*

L13 ANSWER 66 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1972:448236 CAPLUS  
 DOCUMENT NUMBER: 77:48236  
 TITLE: Indole-1-alkylamine derivatives  
 INVENTOR(S): Okamoto, Tadashi; Kobayashi, Tsuyoshi; Yamamoto, Hisao  
 PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd.  
 SOURCE: Jpn. Tokkyo Koho, 2 pp.  
 CODEN: JAXXAD  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

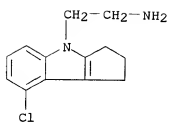
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 47013661	B4	19720424	JP 1968-87469	19681128
GI	For diagram(s), see printed CA Issue.				
AB	The title compds. (I), acting on the central nervous system, were prepd. by reducing the corresponding indole-1-fatty acid amide. E.g., 3.5 g 1-cyclopent[b]indolylacetamide in THF was refluxed with LiAlH <sub>4</sub> and treated with HCl to give 3 g I.HCl (X = H). Similarly prepd. was I (X = Cl).				
IT	36856-42-5P 36856-43-6P RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)				
RN	36856-42-5 CAPLUS				
CN	Cyclopent[b]indole-4(1H)-ethanamine, 2,3-dihydro-, monohydrochloride (9CI) (CA INDEX NAME)				



● HCl

*Amine*  
 $(CH_2)_{m-1} CH_2 \cdot CHMe$

RN 36856-43-6 CAPLUS  
 CN Cyclopent[b]indole-4(1H)-ethanamine, 8-chloro-2,3-dihydro- (9CI) (CA INDEX NAME)



Connecting via Winsock to STN

Welcome to STN International! Enter x:X

LOGINID:sssptal626amd

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock  
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area  
NEWS 4 Apr 09 ZDB will be removed from STN  
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and  
IFIUDB  
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and  
ZCAPLUS  
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER  
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available  
NEWS 9 Jun 03 New e-mail delivery for search results now available  
NEWS 10 Jun 10 MEDLINE Reload  
NEWS 11 Jun 10 PCTFULL has been reloaded  
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment  
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;  
saved answer sets no longer valid  
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY  
NEWS 15 Jul 30 NETFIRST to be removed from STN  
NEWS 16 Aug 08 CANCERLIT reload  
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN  
NEWS 18 Aug 08 NTIS has been reloaded and enhanced  
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)  
now available on STN  
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded  
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded  
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced  
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced  
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file  
NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS  
NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
  
NEWS EXPRESS February 1 CURRENT WINDOWS VERSION IS V6.0d,  
CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),  
AND CURRENT DISCOVER FILE IS DATED 05 FEBRUARY 2002  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:39:49 ON 18 SEP 2002

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 14:39:57 ON 18 SEP 2002

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 17 SEP 2002 HIGHEST RN 452274-20-3

DICTIONARY FILE UPDATES: 17 SEP 2002 HIGHEST RN 452274-20-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

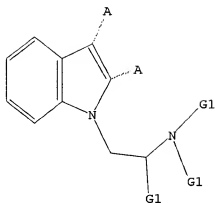
Uploading 10009568.str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



G1 H,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1 ful

FULL SEARCH INITIATED 14:40:12 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 140033 TO ITERATE

100.0% PROCESSED 140033 ITERATIONS

1027 ANSWERS

SEARCH TIME: 00.00.13

L2 1027 SEA SSS FUL L1

=> s l2 and caplus/lc

24503186 CAPLUS/LC

L3 798 L2 AND CAPLUS/LC

=>

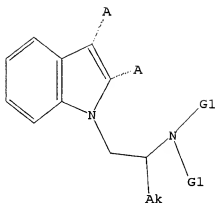
Uploading 10009568.str

L4 STRUCTURE UPLOADED

=> d

L4 HAS NO ANSWERS

L4 STR



G1 H,Ak

Structure attributes must be viewed using STN Express query preparation.

```
=> s 14 subset=12 ful
FULL SUBSET SEARCH INITIATED 14:41:28 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 1027 TO ITERATE

100.0% PROCESSED 1027 ITERATIONS 202 ANSWERS
SEARCH TIME: 00.00.01

L5 202 SEA SUB=L2 SSS FUL L4

=> s 15 and caplus/lc
24503186 CAPLUS/LC
L6 164 L5 AND CAPLUS/LC

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 185.13 185.34

FILE 'CAPLUS' ENTERED AT 14:46:16 ON 18 SEP 2002
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```

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FILE COVERS 1907 - 18 Sep 2002 VOL 137 ISS 12  
FILE LAST UPDATED: 17 Sep 2002 (20020917/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> s 16 ful

L7            18 L6

=> d 1-18 ibib abs hitstr

	PATENT NO.		ISSUE DATE		APPLICATION NO.		DATE	
	1	2	3	4	5	6	7	8
	20200414152		A1		20200626		20201012	
	W1	AE	MA	AK	MA	MA	MA	MA
CA								
CH	CO	CH	CO	CH	CO	CH	CO	CH
CL	MA	MA	MA	MA	MA	MA	MA	MA
DE	FR	FR	FR	FR	FR	FR	FR	FR
DK	ES	ES	ES	ES	ES	ES	ES	ES
EA	GB	GB	GB	GB	GB	GB	GB	GB
FI	JP	JP	JP	JP	JP	JP	JP	JP
GR	HK	HK	HK	HK	HK	HK	HK	HK
HR	IL	IL	IL	IL	IL	IL	IL	IL
HU	IN	IN	IN	IN	IN	IN	IN	IN
IE	IS	IS	IS	IS	IS	IS	IS	IS
IT	JP	JP	JP	JP	JP	JP	JP	JP
KE	KR	KR	KR	KR	KR	KR	KR	KR
KZ	MA	MA	MA	MA	MA	MA	MA	MA
LA	MC	MC	MC	MC	MC	MC	MC	MC
LI	MD	MD	MD	MD	MD	MD	MD	MD
LK	NO	NO	NO	NO	NO	NO	NO	NO
LU	PL	PL	PL	PL	PL	PL	PL	PL
LV	PT	PT	PT	PT	PT	PT	PT	PT
LY	RO	RO	RO	RO	RO	RO	RO	RO
MA	RU	RU	RU	RU	RU	RU	RU	RU
MC	SE	SE	SE	SE	SE	SE	SE	SE
MD	SG	SG	SG	SG	SG	SG	SG	SG
ME	SI	SI	SI	SI	SI	SI	SI	SI
MG	SK	SK	SK	SK	SK	SK	SK	SK
MH	UA	UA	UA	UA	UA	UA	UA	UA
ML	US	US	US	US	US	US	US	US
MM	VE	VE	VE	VE	VE	VE	VE	VE
MO	WO	WO	WO	WO	WO	WO	WO	WO
MP	ZA	ZA	ZA	ZA	ZA	ZA	ZA	ZA
MR								
MT								
MU								
MV								
MY								
MZ								
NA								
NC								
NE								
NG								
NL								
NO								
NP								
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OV								
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OX								
OY								
PA								
PE								
PF								
PG								
PH								



L7 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2002 ACS (Continued)



PN 327022-17-3 CAPIUS  
 CN Carbanic acid,  
 [[15]-2-(6-chloro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-  
 methyl-ethyl]-, 1,1-dimethyl-ethyl ester (9CI) (CA INDEX NAME)

### Absolute stereochemistry.



HN 327022-22-0 CAPLUS  
CN Carbanic acid,  
[ (15) -2- (2,3-dihydro-6-methoxycyclopent [b] indol-4 (1H) -yl) -1-  
methyl ethyl -, 1,1-dimethyl ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

**A2** Title compds.: [R]-2 = H, alkyl, alkenyl, alkynyl, cycloalkenyl; R3 = alkyl, alkenyl, alkynyl, cycloalkyl; R4-7 = H, alkyl, alkenyl, alkynyl.

alkenyl, alkynyl, halogen, haloalkyl, hydronyl, aryl, amino, mono- and dialkylamino, alkoxy, cycloalkyloxy, aryloxy, heteroaryloxy, alkylthio,

alkylsulfonyl, alkylsulfinyl, nitro, cyano, alkoxycarbonyl, arylcarbonyl, heterocyclicarylmethyl, heterocyclic,

cyclobutylbenzylamino,

acyclobutylbenzylamino, heterocycliccarbonylamino, carbonyl A = a S or 6 membered

(n=2,4), carbocyclic, heterocyclic ring, wherein the two atoms of the endline ring to which ring A is fused form a saturated C-C single bond)

**NOTE**

prepd. For instance, 2-[3,2,3,4-tetrahydrocyclopent[b]indol-4-yl]ethylamine.bul.HCl prepa. given was protected as the tert-butoxycarbonyl deriv., reduced (H2AC, NaCNBH3) and deprotected (NaOH, HCl) to give 11 isolated as the fumarate salt. In one assay, selected example compds. tested had. KI = 66 - 316 nM for the 5-HT2A receptor.

are useful for the prevention and treatment of disorders of the central nervous system, damage to the central nervous system, cardiovascular disorders, gastrointestinal disorders, diabetes, sleep apnea, and for the treatment and prevention of obesity.

IT 327022-13-9F 327022-17-3F 327022-22-0F  
327022-25-3F 327022-27-5F 327022-44-6F  
327022-45-7F 327022-48-8F 327022-47-9F  
327022-49-1F 327022-51-5F 433333-69-8F  
433333-70-1F

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);  
 (Reactant or reagent)  
 (intermediate prepn. of indoline derivs. as 5-HT2 receptor  
 ligands)  
 CN 327022-13-9 CAPLUS  
 RW Carbanic acid, [(1R)-2-(2,3-dihydrocyclopent[b]indol-4-((H)-yl)-1-  
 methyl-ethyl]-, 1,1-dimethylethyl ester (RCT) (CA INDEX NAME)  
 Absolute stereochemistry.

L2 ANSWER 1 OF 18 CARLUS COPYRIGHT 2002 ACS (Continued)

KN 327622-25-3 CAPLUS  
CN Carbamic acid, [(1S)-2-(2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)  
  
Epubdate: 20060601

**Absolute stereochemistry.**



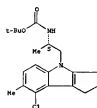
RN 327022-27-5 CAPLUS  
 CN Carbamic acid,  
 [(1S)-2-(6-chloro-7-fluoro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SC1) (CA INDEX

**Absolute stereochemistry.**

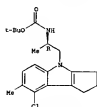


RN 327022-44-6 CAPIUS  
CN Carbamic acid,  
[1IS]-2-(8-chloro-2,3-dihydro-7-methylcyclopent[b]indol-  
4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX

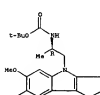
### Absolute stereochemistry.



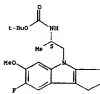
HN 327022-46-7 CAPLUS  
 CN Carbanic acid,  
 [(1R)-2-(4-chloro-2,3-dihydro-7-methoxycyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)  
 Absolute stereochemistry.



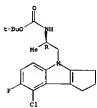
HN 327022-46-8 CAPLUS  
 CN Carbanic acid,  
 [(1R)-2-(7-fluoro-2,3-dihydro-6-methoxycyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)  
 Absolute stereochemistry.



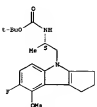
HN 327022-47-9 CAPLUS  
 CN Carbanic acid,  
 [(1R)-2-(7-fluoro-2,3-dihydro-6-methoxycyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)  
 Absolute stereochemistry.



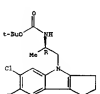
HN 327022-48-1 CAPLUS  
 CN Carbanic acid,  
 [(1R)-2-(8-chloro-7-fluoro-2,3-dihydrocyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)  
 Absolute stereochemistry.



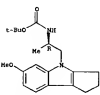
HN 327022-51-5 CAPLUS  
 CN Carbanic acid,  
 [(1R)-2-(7-fluoro-2,3-dihydro-6-methoxycyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)  
 Absolute stereochemistry.



HN 433333-69-8 CAPLUS  
 CN Carbanic acid,  
 [(1R)-2-(8-chloro-7-fluoro-2,3-dihydrocyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)  
 Absolute stereochemistry.



HN 433333-76-1 CAPLUS  
 CN Carbanic acid,  
 [(1R)-2-(2,3-dihydro-6-methoxycyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)  
 Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	-----	-----	-----	-----
	US 2001/0045645	A3	2002/03/30	US 2001/0044966	2001/05/09
	WI 161/548 A3	AM	AT 2002/03/30		
CH		AM	AT 2002/03/30	EA	EA 2002/03/30
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L7 ANSWER 2 OF 10 CAPSUS COPYRIGHT 2002 ACS (Continued)

(Reactant or reagent) / USES (Uses)

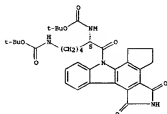
(Prepn. of novel multicyclic compds. and their amino acid derivs.)

as inhibitors of enzymes for treatment of diseases related to enzymes such as poly(ADP-ribose) polymerase, VSPF2 kinase, and HLK3 kinase)

K9 376690-19-9 CAPSUS

CR Carbanic acid, (1S)-1-(1,2,3,4,5,6,7,8-oxyhepta-1,3-dione-7H-cyclopenta[a]pyrrolo[3,4-c]carbazol-5-yl)carbamoyl-1,5-pentenediyl]bis-, bis(1,1-dimethylethyl) ester (SCI) (CA INDEX NAME)

Absolute stereochemistry.



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17 374069-09-7P 374070-20-2P 374070-85-6P
   374070-85-6P 374070-85-2P 374070-85-0P
   RL AC (Biological: signal or effector, except adverse): HSU
(Bio)
   syn: unclassified; SPW (Synthetic preparation); THU (Therapeutic
use)
   RIDL (Biological: signal): PREP (Preparation) USES (Uses)
(Prepn. of novel multicyclic compds. and their amino acid derivs.
22
   Inhibitors of enzymes for treatment of diseases related to
enzymes much
   ac (poly(ADP-ribosyl) polymerase, VZPFAA kinase, and NIKK kinase)
KH 374069-01-7P CARLOS
   1H-1H-Cyclononene [4-oxo-1,4-oxazoline-3,1,12H]-dione,
   4,4-dichloro-
   7-(2E)-2,6-diamino-1-oxohexyl-4,5,6,7-tetrahydro, dihydrochloride
(PCI)
   (CA INDEX NAME)
Absolute stereochemistry

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[illegible]

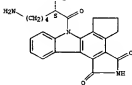
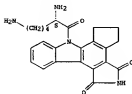
17 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

H<sub>2</sub>NH  
 (CH<sub>2</sub>)<sub>4</sub>

● 2 BCL

RX 37469-20-2 CAPLUS  
 CW 7-[(2S)-6,6-dimethyl-1,4-cyclohexadiene-1,3-diyl]octane-1,3-diyl  
 7-[(2S)-6,6-dimethyl-1,4-cyclohexadiene-1,3-diyl]octane-1,3-diyl (C<sub>20</sub> H<sub>30</sub> N<sub>2</sub>)

NAME: 7-[(2S)-6,6-dimethyl-1,4-cyclohexadiene-1,3-diyl]octane-1,3-diyl



ZN 374070-#5-6 CAPLUS  
 CN 1*M*-Cyclopenta[*a*]pyrrolo[3,4-*c*]carbazole-1,3(2*H*)-dione,  
 10-bromo-7-[ (2*S*)-2,6-diamino-1-oxohexyl]-4,6,6,7-tetrahydro- (9CI)  
 (CA  
 INDEX NAME)  
 Absolute stereochemistry.





L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)  
(.alpha.S)-, (2R)-2-butenedioate (1:1) (PCI) (CA INDEX NAME)

CH 1

CHN 327021-21-4  
CHF C14 H17 Cl N2

Absolute stereochemistry.



CH 2

CHN 110-17-8  
CHF C4 H4 O4

Double bond geometry as shown.



RN 327021-24-9 CAPLUS  
CN Thiopyran[4,3-b]indole-5(1H)-ethanamine,  
7-chloro-5,6,7,8-tetrahydro-.alpha.-methyl-,  
(.alpha.S)-, (2R)-2-butenedioate (2:1) (PCI) (CA INDEX  
NAME)

CH 1

CHN 327021-23-8  
CHF C14 H17 Cl N2 S

Absolute stereochemistry.



L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)  
Absolute stereochemistry.



CH 2

CHN 110-17-8  
CHF C4 H4 O4

Double bond geometry as shown.



RN 327021-20-7 CAPLUS  
CN 5H-Carbocyclic-5-ethanamine,  
3-chloro-5,6,7,8-tetrahydro-.alpha.-methyl-,  
(.alpha.S)-, (2R)-2-butenedioate (1:1) (PCI) (CA INDEX NAME)

CH 1

CHN 327021-20-4  
CHF C18 H19 Cl N2

Absolute stereochemistry.



CH 2

CHN 110-17-8  
CHF C4 H4 O4

Double bond geometry as shown.

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

CH 2

CHN 110-17-8  
CHF C4 H4 O4

Double bond geometry as shown.



RN 327021-26-1 CAPLUS  
CN Cyclopent[bl]indole-4(1H)-ethanamine,  
6-bromo-2,3-dihydro-.alpha.-methyl-,  
(.alpha.S)-, (2R)-2-butenedioate (2:1) (PCI) (CA INDEX NAME)

CH 1

CHN 327021-26-0  
CHF C14 H17 Br N2

Absolute stereochemistry.



CH 2

CHN 110-17-8  
CHF C4 H4 O4

Double bond geometry as shown.



RN 327021-26-3 CAPLUS  
CN 5H-Carbocyclic-5-ethanamine, 2-bromo-5,6,7,8-tetrahydro-.alpha.-methyl-,  
(.alpha.S)-, (2R)-2-butenedioate (2:1) (PCI) (CA INDEX NAME)

CH 1

CHN 327021-27-2  
CHF C18 H19 Br N2

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 327021-32-5 CAPLUS  
CN Cyclopent[bl]indole-4(1H)-ethanamine,  
7-chloro-2,3-dihydro-.alpha.-methyl-,  
(.alpha.S)-, (2R)-2-butenedioate (1:1) (PCI) (CA INDEX NAME)

CH 1

CHN 327021-31-6  
CHF C14 H17 Cl N2

Absolute stereochemistry.



CH 2

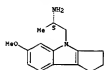
CHN 110-17-8  
CHF C4 H4 O4

Double bond geometry as shown.



RN 327021-33-0 CAPLUS  
CN Cyclopent[bl]indole-4(1H)-ethanamine,  
5,6-dihydro-6-methoxy-.alpha.-methyl-,  
(.alpha.S)- (PCI) (CA INDEX NAME)

Absolute stereochemistry.

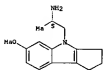


**RU** 327021-34-1 CAPLUS  
**CM** Cyclopent[*b*]indole-4-[1H]-ethanamine, 2,3-dihydro-6-methoxy-,  $\alpha$ -(methyl-), ( $\alpha$ -(alpha-5)-, (2S)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

**CM** 1

**CMN** 327021-33-0  
**CMF** C15 H20 N2 O

Absolute stereochemistry.



**CM** 2

**CMN** 110-17-8  
**CMF** C4 H4 O4

Double bond geometry as shown.



**RU** 327021-37-4 CAPLUS  
**CM** Cyclopent[*b*]indole-4-[1H]-ethanamine, 2,3-dihydro-8-methoxy-,  $\alpha$ -(methyl-), ( $\alpha$ -(alpha-5)-, (2S)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

**CM** 1

**CMN** 327021-36-3  
**CMF** C15 H20 N2 O

Absolute stereochemistry.



**CM** 2

**CMN** 110-17-8  
**CMF** C4 H4 O4

Double bond geometry as shown.



**RU** 327021-39-8 CAPLUS  
**CM** Cyclopent[*b*]indole-4-[1H]-ethanamine, 5,6-dichloro-2,3-dihydro-,  $\alpha$ -(methyl-), monohydrochloride, ( $\alpha$ -(alpha-5)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● NC1

**RU** 327021-39-6 CAPLUS  
**CM** Cyclopent[*b*]indole-4-[1H]-ethanamine, 2,3-dihydro-,  $\alpha$ -(methyl-), monohydrochloride, ( $\alpha$ -(alpha-5)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● NC1

**RU** 327021-40-9 CAPLUS  
**CM** 4H-Thieno[3,2-*b*]indole-4-ethanamine, 6,8-dichloro-,  $\alpha$ -(methyl-), monohydrochloride, ( $\alpha$ -(alpha-5)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● NC1

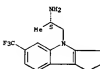
**RU** 327021-41-0 CAPLUS  
**CM** Cyclopent[*b*]indole-4-[1H]-ethanamine, 6-chloro-7-fluoro-2,3-dihydro-,  $\alpha$ -(methyl-), ( $\alpha$ -(alpha-5)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



**RU** 327021-42-1 CAPLUS  
**CM** Cyclopent[*b*]indole-4-[1H]-ethanamine, 2,3-dihydro-,  $\alpha$ -(methyl-), 6-(trifluoromethyl-), monohydrochloride, ( $\alpha$ -(alpha-5)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● NC1

**RU** 327021-43-2 CAPLUS  
**CM** Cyclopent[*b*]indole-4-[1H]-ethanamine, 8-chloro-7-fluoro-2,3-dihydro-,  $\alpha$ -(methyl-), monohydrochloride, ( $\alpha$ -(alpha-5)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 9CI

RN 327021-44-5 CAPLUS  
 CN Cyclopent[bl]indole-4(1H)-ethanamine,  
 6,7-dichloro-2,3-dihydro-,  
 methyl-, monohydrochloride, (.alpha.S)- (9CI) (CA INDEX NAME)  
 Absolute stereochemistry.



● 9CI

RN 327021-45-4 CAPLUS  
 CN Cyclopent[bl]indole-4(1H)-ethanamine,  
 2,3-dihydro-7-methoxy-,  
 methyl-, monohydrochloride, (.alpha.S)- (9CI) (CA INDEX NAME)  
 Absolute stereochemistry.



● 9CI

RN 327021-48-7 CAPLUS  
 CN Cyclopent[bl]indole-4(1H)-ethanamine,  
 2,3-dihydro-,  
 methyl-, monohydrochloride, (.alpha.S)- (9CI) (CA INDEX NAME)  
 Absolute stereochemistry.

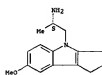


● 9CI

RN 327021-50-1 CAPLUS  
 CN Cyclopent[bl]indole-4(1H)-ethanamine,  
 2,3-dihydro-,  
 methyl-, monohydrochloride, (.alpha.S)- (9CI) (CA INDEX NAME)  
 Absolute stereochemistry.

CN 1

CNF 327021-49-8  
 CNF C17 H24 N2 O



● 9CI

RN 327021-46-5 CAPLUS  
 CN Cyclopent[bl]indole-4(1H)-ethanamine,  
 2,3-dihydro-,  
 methyl-, monohydrochloride, (.alpha.S)- (9CI) (CA INDEX NAME)  
 Absolute stereochemistry.



● 9CI

RN 327021-47-6 CAPLUS  
 CN Cyclopent[bl]indole-4(1H)-ethanamine,  
 7,8-dichloro-2,3-dihydro-,  
 methyl-, monohydrochloride, (.alpha.S)- (9CI) (CA INDEX NAME)  
 Absolute stereochemistry.



CN 2

CNF 116-17-4  
 CNF C4 H4 O4

Double bond geometry as shown.

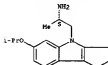


RN 327021-52-3 CAPLUS  
 CN Cyclopent[bl]indole-4(1H)-ethanamine,  
 2,3-dihydro-,  
 methyl-, monohydrochloride, (.alpha.S)- (9CI) (CA INDEX NAME)  
 Absolute stereochemistry.

CN 1

CNF 327021-51-2  
 CNF C17 H24 N2 O

Absolute stereochemistry.



CN 2

CNF 116-17-4

Double bond geometry as shown.



RN 327021-53-4 CAPLUS  
CN Cyclopent[hi]ndole-4-[1H]-ethanamine, 6,8-dichloro-2,3-dihydro- $\alpha$ -( $\alpha$ -methyl- $\beta$ -monohydrochloride, (.alpha.S)- (PCI) (CA INDEX NAME)

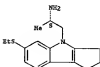
Absolute stereochemistry.



● HCl

RN 327021-54-5 CAPLUS  
CN Cyclopent[hi]ndole-4-[1H]-ethanamine, 6-(ethylthio)-2,3-dihydro- $\alpha$ -( $\alpha$ -methyl- $\beta$ -monohydrochloride, (.alpha.S)- (PCI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl



● HCl

RN 327021-58-9 CAPLUS  
CN Cyclopent[hi]ndole-4-[1H]-ethanamine, 6-fluoro-2,3-dihydro- $\alpha$ -( $\alpha$ -methyl- $\beta$ -monohydrochloride, (.alpha.S)- (PCI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

RN 327021-59-0 CAPLUS  
CN 4H-Pheno[3,2-b]indole-4-ethanamine,  $\alpha$ -( $\alpha$ -methyl- $\beta$ -monohydrochloride, (.alpha.S)- (PCI) (CA INDEX NAME)

Absolute stereochemistry.

CN Cyclopent[hi]ndole-4-[1H]-ethanamine, 2,3-dihydro- $\alpha$ -( $\alpha$ -methyl- $\beta$ -trifluoromethyl- $\beta$ -monohydrochloride, (.alpha.S)- (PCI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

RN 327021-56-7 CAPLUS  
CN Cyclopent[hi]ndole-4-[1H]-ethanamine, 2,3-dihydro- $\alpha$ -( $\alpha$ -methyl-7-(trifluoromethyl)- $\beta$ -monohydrochloride (PCI) (CA INDEX NAME)



● HCl

RN 327021-57-8 CAPLUS  
CN Cyclopent[hi]ndole-4-[1H]-ethanamine, 2,3-dihydro- $\alpha$ -( $\alpha$ -methyl- $\beta$ -monohydrochloride, (.alpha.S)- (PCI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

RN 327021-60-3 CAPLUS  
CN Cyclopent[hi]ndole-4-[1H]-ethanamine, 6,7-difluoro-2,3-dihydro- $\alpha$ -( $\alpha$ -methyl- $\beta$ -monohydrochloride (PCI) (CA INDEX NAME)



● HCl

RN 327021-61-4 CAPLUS  
CN Cyclopent[hi]ndole-4-[1H]-ethanamine, 8-chloro-2,3-dihydro- $\alpha$ -( $\alpha$ -methyl- $\beta$ -dimethyl- $\beta$ -monohydrochloride, (.alpha.S)- (PCI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

IN 327021-62-5 CAPLUS  
 CN Cyclopent[b]indole-4-[(1H)-ethanamine, 8-chloro-2,3-dihydro-6-methoxy-, 7-dimethyl-, monohydrochloride, (.alpha.R)-] (HCl) (CA INDEX NAME)

Absolute stereochemistry.



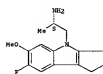
● HCl

IN 327021-63-6 CAPLUS  
 CN Cyclopent[b]indole-4-[(1H)-ethanamine, 7-fluoro-2,3-dihydro-6-methoxy-, .alpha.-methyl-, (.alpha.R)-, (2E)-2-butenedioate (1:1) (HCl) (CA INDEX NAME)

CN 1

CHN 327021-63-6  
 CNF C15 H19 F H2 O

Absolute stereochemistry.



CN 2

CHN 116-17-8  
 CNF C4 H4 O4

Double bond geometry as shown.



IN 327021-68-1 CAPLUS  
 CN Cyclopent[b]indole-4-[(1H)-ethanamine, 8-chloro-7-fluoro-2,3-dihydro-6-methoxy-, .alpha.-methyl-, (.alpha.R)-, (2E)-2-butenedioate (1:1) (HCl) (CA INDEX NAME)

CN 1

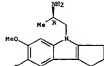
CHN 327021-67-8  
 CNF C14 H16 Cl F H2

Absolute stereochemistry.



CN 2

CHN 116-17-8  
 CNF C4 H4 O4



CN 2

CHN 116-17-8  
 CNF C4 H4 O4

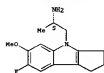
Double bond geometry as shown.



IN 327021-65-8 CAPLUS

CN Cyclopent[b]indole-4-[(1H)-ethanamine, 7-fluoro-2,3-dihydro-6-methoxy-, .alpha.-methyl-, (.alpha.S)-] (HCl) (CA INDEX NAME)

Absolute stereochemistry.



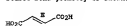
IN 327021-66-9 CAPLUS

CN Cyclopent[b]indole-4-[(1H)-ethanamine, 7-fluoro-2,3-dihydro-6-methoxy-, .alpha.-methyl-, (.alpha.S)-, (2E)-2-butenedioate (1:1) (HCl) (CA INDEX NAME)

CN 1

CHN 327021-65-8  
 CNF C15 H19 F H2 O

Absolute stereochemistry.



IN 327021-68-2 CAPLUS

CN Cyclopent[b]indole-4-[(1H)-ethanamine, 8-chloro-7-fluoro-2,3-dihydro-6-methoxy-, .alpha.-methyl-, (.alpha.R)-] (HCl) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

IN 327021-70-5 CAPLUS

CN Cyclopent[b]indole-4-[(1H)-ethanamine, 8-bromo-2,3-dihydro-6-methoxy-, .alpha.-methyl-, (.alpha.S)-] (HCl) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 RN 327021-71-6 CAPLUS  
 CN Cyclopent[*b*]indole-4-[(1*H*)-ethanamine, 7-fluoro-2,3-dihydro-8-methoxy-,  
 .alpha.-methyl-, (.alpha.*S*)-] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 327021-72-7 CAPLUS  
 CN Cyclopent[*b*]indole-4-[(1*H*)-ethanamine, 7-fluoro-2,3-dihydro-8-methoxy-,  
 .alpha.-methyl-, (.alpha.*S*)-, (2*R*)-2-butenediolate (2:1) (9CI) (CA  
 INDEX NAME)

CH 1

CIN 327021-71-6  
 CNF C15 H19 F O2 O

Absolute stereochemistry.



CH 2

CIN 110-17-8  
 CNF C8 H8 O4

Double bond geometry as shown.

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 327021-76-1 CAPLUS  
 CN Cyclopent[*b*]indole-4-[(1*H*)-ethanamine,  
 7,8-difluoro-2,3-dihydro-.alpha.-  
 methyl-, (.alpha.*S*)-] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 327021-77-3 CAPLUS  
 CN Cyclopent[*b*]indole-4-[(1*H*)-ethanamine,  
 7,8-difluoro-2,3-dihydro-.alpha.-  
 methyl-, (.alpha.*S*)-, (2*R*)-2-butenediolate (1:1) (9CI) (CA INDEX  
 NAME)

CH 1

CIN 327021-76-1  
 CNF C14 H16 F2 N2

Absolute stereochemistry.

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 327021-73-4 CAPLUS  
 CN Cyclopent[*b*]indole-4-[(1*H*)-ethanamine,  
 8-chloro-2,3-dihydro-.alpha.-methyl-,  
 (.alpha.*S*)-] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● 9CI1

RN 327021-74-9 CAPLUS  
 CN Cyclopent[*b*]indole-4-[(1*H*)-ethanamine,  
 8-chloro-2,3-dihydro-.alpha.-methyl-,  
 (.alpha.*S*)-] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 327021-75-0 CAPLUS  
 CN Cyclopent[*b*]indol-1-[(2*R*)-one, 4-[(2*S*)-2-aminopropyl]-3,4-dihydro- (9CI)  
 (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



CH 2

CIN 110-17-8  
 CNF C8 H8 O4

Double bond geometry as shown.



RN 327022-55-9 CAPLUS  
 CN Cyclopent[*b*]indole-4-[(1*H*)-ethanamine,  
 8-ethoxy-7-fluoro-2,3-dihydro-.alpha.-  
 methyl-, (.alpha.*S*)-] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 327022-56-0 CAPLUS  
 CN Cyclopent[*b*]indole-4-[(1*H*)-ethanamine, 2,3-dihydro-.alpha.-methyl-,  
 (.alpha.*S*)-] (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



HN 327022-17-1 CAPLUS  
CN Cyclopent[bl]indol-4-yl-ethanone, 2,3-dihydro- $\alpha$ -methyl-,  
( $\alpha$ -methyl-)- (SCI) (CA INDEX NAME)

Absolute stereochemistry.



IT 327021-80-7P 327022-13-9P 327022-14-0P  
327022-18-1P 327022-16-2P 327022-17-2P  
327022-18-6P 327022-18-6P 327022-20-9P  
327022-21-9P 327022-22-0P 327022-23-1P  
327022-24-9P 327022-25-0P 327022-16-1P  
327022-27-9P 327022-28-6P 327022-29-7P  
327022-30-0P 327022-31-1P 327022-32-0P  
327022-33-9P 327022-34-4P 327022-35-5P  
327022-36-6P 327022-37-7P 327022-38-8P  
327022-39-9P 327022-40-2P 327022-41-0P  
327022-42-0P 327022-43-9P 327022-44-9P  
327022-45-7P 327022-46-6P 327022-47-9P  
327022-48-9P 327022-49-1P 327022-50-0P  
327022-51-9P 327022-52-6P 327022-53-7P  
327022-54-9P

RI: RCT (Reactant); SYN (Synthetic Preparation); PREP (Preparation);

(Reactant or reagent)  
(Group of indole derivative, as agonists or antagonists of a 5-HT  
receptor, particularly a 5-HT<sub>2C</sub> receptor)

HN 327022-00-1 CAPLUS  
CN Carbanic acid,  
[(1S)-2-(7-chloro-2,3,4-tetrahydro-2H-carbazol-9-yl)-1-  
methyl-ethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)

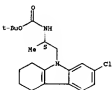
Absolute stereochemistry.

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



HN 327022-15-1 CAPLUS  
CN Carbanic acid,  
[(1S)-2-(7-chloro-2,3,4-tetrahydro-2H-carbazol-9-yl)-1-  
methyl-ethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)

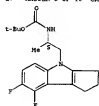
Absolute stereochemistry.



HN 327022-16-2 CAPLUS  
CN Carbanic acid,  
[(1S)-2-(6-chloro-2,3-dihydrocyclopent[bl]indol-4-yl)-1-  
methyl-ethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



HN 327022-13-9 CAPLUS  
CN Carbanic acid, [(1S)-2-(2,3-dihydrocyclopent[bl]indol-4-yl)-1-  
methyl-ethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)

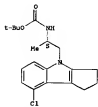
Absolute stereochemistry.



HN 327022-14-0 CAPLUS  
CN Carbanic acid,  
[(1S)-2-(7-fluoro-2,3-dihydrocyclopent[bl]indol-4-yl)-1-  
methyl-ethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



HN 327022-17-3 CAPLUS  
CN Carbanic acid,  
[(1S)-2-(6-chloro-2,3-dihydrocyclopent[bl]indol-4-yl)-1-  
methyl-ethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)

Absolute stereochemistry.

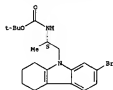


HN 327022-18-4 CAPLUS  
CN Carbanic acid,  
[(1S)-2-(6-bromo-2,3-dihydrocyclopent[bl]indol-4-yl)-1-  
methyl-ethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)

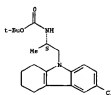
Absolute stereochemistry.



HN 327023-19-5 CAPLUS  
CN Carbanic acid, [(1S)-2-(7-bromo-4,2,3,4-tetrahydro-5H-carbazol-9-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)  
Absolute stereochemistry.



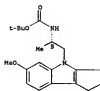
HN 327022-20-8 CAPLUS  
CN Carbanic acid, [(1S)-2-(6-bromo-1,2,3,4-tetrahydro-5H-carbazol-9-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)  
Absolute stereochemistry.



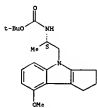
HN 327022-21-9 CAPLUS  
CN Carbanic acid, [(1S)-2-(7-chloro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)  
Absolute stereochemistry.



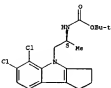
HN 327022-22-0 CAPLUS  
CN Carbanic acid, [(1S)-2-(2,3-dihydro-6-methoxycyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)  
Absolute stereochemistry.



HN 327022-23-1 CAPLUS  
CN Carbanic acid, [(1S)-2-(2,3-dihydro-6-methoxycyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)  
Absolute stereochemistry.



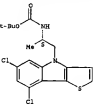
HN 327022-24-2 CAPLUS  
CN Carbanic acid, [(1S)-2-(5,6-dichloro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)  
Absolute stereochemistry.



HN 327022-25-3 CAPLUS  
CN Carbanic acid, [(1S)-2-(2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)  
Absolute stereochemistry.



HN 327022-26-4 CAPLUS  
CN Carbanic acid, [(1S)-2-(6,8-dichloro-4H-thieno[3,2-b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)  
Absolute stereochemistry.



L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

IN 327022-27-5 CAPLUS  
 CN Carbanic acid,  
 [(1S)-2-(6-chloro-7-fluoro-2,3-dihydrocyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)  
 Absolute stereochemistry.



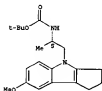
IN 327022-28-6 CAPLUS  
 CN Carbanic acid,  
 [(1S)-2-(2,3-dihydro-6-(trifluoromethyl)cyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)  
 Absolute stereochemistry.



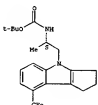
IN 327022-29-7 CAPLUS  
 CN Carbanic acid,  
 [(1S)-2-(6-chloro-7-fluoro-2,3-dihydrocyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)  
 Absolute stereochemistry.



L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



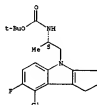
IN 327022-30-2 CAPLUS  
 CN Carbanic acid,  
 [(1S)-2-(2,3-dihydro-8-(trifluoromethyl)cyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)  
 Absolute stereochemistry.



IN 327022-33-3 CAPLUS  
 CN Carbanic acid,  
 [(1S)-2-(7-methylchloro-2,3-dihydrocyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)  
 Absolute stereochemistry.



L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



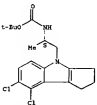
IN 327022-30-0 CAPLUS  
 CN Carbanic acid,  
 [(1S)-2-(6,7-dichloro-2,3-dihydrocyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)  
 Absolute stereochemistry.



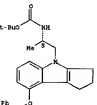
IN 327022-31-1 CAPLUS  
 CN Carbanic acid,  
 [(1S)-2-(2,3-dihydro-7-methoxycyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)  
 Absolute stereochemistry.



L7 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

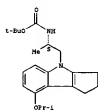


IN 327022-34-4 CAPLUS  
 CN Carbanic acid,  
 [(1S)-2-(2,3-dihydro-8-(phenylethoxycyclopent[b]indol-4-yl)-1-methylethyl)-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)  
 Absolute stereochemistry.



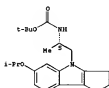
IN 327022-35-5 CAPLUS  
 CN Carbanic acid,  
 [(1S)-2-(2,3-dihydro-8-(1-methylethoxycyclopent[b]indol-4-yl)-1-methylethyl)-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)  
 Absolute stereochemistry.





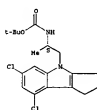
IN 327022-36-6 CAPLUS  
CN Carbanic acid,  
[(1S)-2-(2,3-dihydro-6-(1-methylethoxy)cyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)

Absolute stereochemistry.



IN 327022-37-7 CAPLUS  
CN Carbanic acid,  
[(1S)-2-(6,8-dichloro-2,3-dihydrocyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)

Absolute stereochemistry.



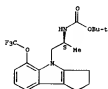
IN 327022-38-8 CAPLUS  
CN Carbanic acid,  
[(1S)-2-(6-(ethylthio)-2,3-dihydrocyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)

Absolute stereochemistry.



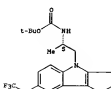
IN 327022-39-9 CAPLUS  
CN Carbanic acid,  
[(1S)-2-(2,3-dihydro-5-(trifluoromethyl)cyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)

Absolute stereochemistry.



IN 327022-40-2 CAPLUS  
CN Carbanic acid,  
[(1S)-2-(2,3-dihydro-7-(trifluoromethyl)cyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)

Absolute stereochemistry.



IN 327022-41-3 CAPLUS  
CN Carbanic acid,  
[(1S)-2-(6-fluoro-2,3-dihydrocyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)

Absolute stereochemistry.



IN 327022-42-4 CAPLUS  
CN Carbanic acid, [(1S)-1-methyl-2-(4H-thieno[3,2-b]indol-4-yl)ethyl]-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)

Absolute stereochemistry.



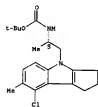
IN 327022-43-5 CAPLUS  
CN Carbanic acid,  
[(1S)-2-(6,7-difluoro-2,3-dihydrocyclopent[b]indol-4-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (PCI) (CA INDEX NAME)

Absolute stereochemistry.



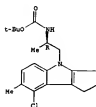
IN 327022-44-6 CAPLUS  
CN Carboxylic acid,  
[(1S)-2-(8-chloro-2,3-dihydro-7-methylcyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IN 327022-45-7 CAPLUS  
CN Carboxylic acid,  
[(1N)-2-(8-chloro-2,3-dihydro-7-methylcyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



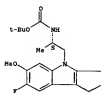
IN 327022-46-8 CAPLUS  
CN Carboxylic acid,  
[(1S)-2-(7-fluoro-2,3-dihydro-6-methoxycyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IN 327022-47-9 CAPLUS  
CN Carboxylic acid,  
[(1S)-2-(7-fluoro-2,3-dihydro-6-methoxycyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



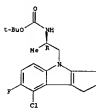
IN 327022-48-0 CAPLUS  
CN Carboxylic acid,  
[(1R)-2-(6,7-difluoro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



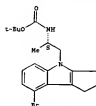
IN 327022-49-1 CAPLUS  
CN Carboxylic acid,  
[(1N)-2-(8-chloro-6-fluoro-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



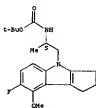
IN 327022-50-4 CAPLUS  
CN Carboxylic acid,  
[(1S)-2-(8-bromo-2,3-dihydrocyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IN 327022-51-5 CAPLUS  
CN Carboxylic acid,  
[(1S)-2-(7-fluoro-2,3-dihydro-8-methoxycyclopent[b]indol-4(1H)-yl)-1-methylethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



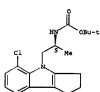
RN 327023-52-6 CAPLUS  
 CN Carbanic acid,  
 [(1S)-2-((1-chloro-2,3-dihydrocyclopent[b]indol-4-yl)-1-methylethyl)-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)

Absolute stereochemistry.



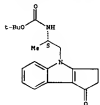
RN 327022-53-7 CAPLUS  
 CN Carbanic acid,  
 [(1S)-2-((1-chloro-2,3-dihydrocyclopent[b]indol-4-yl)-1-methylethyl)-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)

Absolute stereochemistry.



RN 327022-54-8 CAPLUS  
 CN Carbanic acid,  
 [(1S)-2-((2,3-dihydro-1-methoxycyclopent[b]indol-4-yl)-1-methylethyl)-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE R&R FORMAT

ACCESSION NUMBER: 2000189456 CAPLUS  
 DOCUMENT NUMBER: 134130466  
 TITLE: High yield synthesis of heterocyclic .beta.-substituted alanine derivatives  
 AUTHOR(S): Ferreira, Paula M. T.; Maia, Heraldo L. S.; Dulo S.  
 CORPORATE SOURCE: Department of Chemistry, University of Minho, Guimar, Portugal  
 SOURCE: Peptides for the New Millennium, Proceedings of the American Peptide Symposium, 16th, Minneapolis, United States, June 26-July 1, 1999 (2000), Date 1999, 70-71. Editor(s): Fields, Gregg B., James P.; Barany, George. Kluwer Academic  
 ME, Dordrecht, Beth.  
 MEETING: COORDINATOR: 654703  
 CONFERENCE: English  
 PUBLISHER: Conference

DOCUMENT TYPE: A symposium report on the prodn. of various heterocyclic .beta.-substituted alanines by Richard. addn. to the Me ester of N,N-di-tert-butylcarbamoylindolalanine  
 LANGUAGE: English  
 ABSTRACT: [Doc. UETA, Ala(D-iso)-OMe], by taking advantage of the double acylation to obtain straightforward, high yield syntheses in soln.

IT 314255-00-00 314255-00-00 314255-00-00  
 327026-00-00  
 RL SYN (Synthetic preparation); PREP (Preparation)  
 (high yield synthesis of heterocyclic .beta.-substituted alanine derivative)

RN 314255-02-2 CAPLUS  
 CN 2N-Carboxylic-3-propanoic acid, .alpha.-[bis[(1,1-dimethylethoxy)carbonyl]amino]-, methyl ester (SCI) (CA INDEX NAME)



RN 314255-03-3 CAPLUS

CH 2N-Carboxylic-3-propanoic acid, .alpha.-[bis[(1,1-dimethylethoxy)carbonyl]amino]-3-fluoro-, methyl ester (SCI) (CA INDEX NAME)



RN 314255-04-4 CAPLUS  
 CN 2N-Carboxylic-3-propanoic acid, .alpha.-[bis[(1,1-dimethylethoxy)carbonyl]amino]-3-nitro-, methyl ester (SCI) (CA INDEX NAME)



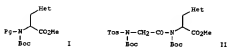
RN 327046-00-6 CAPLUS  
 CN 2N-Carboxylic-3-propanoic acid, .alpha.-[bis[(1,1-dimethylethoxy)carbonyl]amino]-2-fluoro-, methyl ester (SCI) (CA INDEX NAME)



REFERENCE COUNT: 5 THREE ARE CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.

FORMAT

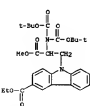
L7 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 20001480442 CAPLUS  
 DOCUMENT NUMBER: 13471944  
 TITLE: Synthesis of .beta.-substituted alanines via  
 Michael addition of nucleophiles to dehydroalanine  
 derivatives  
 AUTHOR(S): Ferraris, Paula M. T.; Maia, Hermeni L. S.;  
 Pinheiro, S.  
 CHEMIST SOURCE: Department of Chemistry, University of Minho,  
 Braga, P-4700-320, Port.  
 PERIOD 1 (2000), (19), 2317-2324  
 CODEN: FREGG9  
 PUBLISHED: Royal Society of Chemistry  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 13471944  
 DI



AB Several .beta.-heterocyclic alanines I (Pg = Boc, Cbz, benzoyl, 4-nitrobenzoyl, 4-nitrobenzyl, 4-nitrobenzylcarboxyl, Het = pyrazol-1-yl, 1,2,4-triazol-1-yl, indazol-1-yl, 3-furylindol-1-yl, 7-azaindol-1-yl, etc.) are synthesized in high yields by a Michael addn. of heterocyclic nucleophiles to dehydroalanine deriv. Pg-N(BocC(CH2)CO2Me using mild reaction conditions and simple work-up procedures. Similarly, .beta.-heterocyclic alanine-contg. dipeptides II are synthesized.  
 IT 314238-02-2 CAPLUS  
 NUC: HCT (Reactant); SWP (Synthetic preparation); PREP (Preparation);  
 NAME: (Reactant or reagent)  
 (peptide of .beta.-heterocyclic alanines from the Michael addn. of heterocyclic nucleophiles to dehydroalanine deriv.)  
 RN 314238-02-2 CAPLUS  
 CN SH-Carbazone-9-propanoic acid, .alpha.-[bis(1,1-dimethylethoxy)carbonyl]amino-, methyl ester (SCI) (CA INDEX NAME)



IT 229622-76-6P 314238-03-3P 314238-04-4P  
 314238-28-1P  
 RU SWP (Synthetic preparation); PREP (Preparation)  
 (Di-peptide of .beta.-heterocyclic alanines from the Michael addn. of heterocyclic nucleophiles to dehydroalanine deriv.)  
 RN 229622-76-6 CAPLUS  
 CN SH-Carbazone-9-propanoic acid, .alpha.-[bis(1,1-dimethylethoxy)carbonyl]amino-, methyl ester (SCI)  
 (CA INDEX NAME)



RN 314255-03-3 CAPLUS  
 CN SH-Carbazone-9-propanoic acid, .alpha.-[bis(1,1-dimethylethoxy)carbonyl]amino-, 3-fluoro-, methyl ester (SCI) (CA INDEX NAME)



RN 314255-04-4 CAPLUS  
 CN SH-Carbazone-9-propanoic acid, .alpha.-[bis(1,1-dimethylethoxy)carbonyl]amino-, 3-nitro-, methyl ester (SCI) (CA INDEX NAME)  
 RU 314255-25-9 CAPLUS  
 CN SH-Carbazone-9-propanoic acid, .alpha.-amino-, methyl ester, monomethylcarbamate (SCI) (CA INDEX NAME)  
 CN 1  
 CHN 314255-24-9  
 CIP C16 H16 N2 O2



L7 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

CH 2  
CIN 76-05-1  
CQ C1 H P3 02



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE  
FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RX  
FORMAT

L7 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1999132183 CAPLUS  
DOCUMENT NUMBER: 13114113

TITLE: High yielding synthesis of heterocyclic  
beta-substituted alanine derivatives  
AUTHOR(S): Ferreira, Paula M. T.; Maia, Mariana L. S.;  
Monteiro, Luis S.

CORPORATE SOURCE: Department of Chemistry, University of Nampo,  
Bras, P-4710, Port.

SOURCE: Tetrahedron Letters (1999), 40(21), 4099-4102  
CURREN TELAVI ISSN 0040-4039

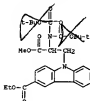
PUBLISHED: Elsevier Science Ltd.  
JOURNAL: English  
LANGUAGE: English

AB: Heterocyclic beta-substituted alanine derivs. such as  
.beta.-(pyrazol-1-yl)- and .beta.-(1,2,4-triazol-1-yl)alanine are  
synthesized in high yields by Michael addn. of heterocyclic  
nucleophiles

IT: C. 9, N-hetero-3-aryloxyacetylhydrazinolane Me ester, using mild  
reaction conditions and simple work-up procedures.

R1: SYN (Synthetic preparation); PREP (Preparation)  
(Synthesis of heterocyclic .beta.-substituted alanine derivs.)  
RX 226422-76-8 CAPLUS

CN 9H-Carbazole-9-propenoic acid, .alpha.-bis[(1,1-dimethyl-4-oxo-1,2,3,4-tetrahydropyridin-2-yl)methyl] ester (PCI)  
(CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR  
THIS RECORD. ALL CITATIONS AVAILABLE IN THE RX  
FORMAT

L7 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999132419 CAPLUS  
DOCUMENT NUMBER: 130178951

TITLE: Efficient Incorporation of Nonnatural Amino  
Acids with

Large Aromatic Groups into Streptavidin in  
Vitre Protein Synthesizing Systems

AUTHOR(S): Hoshino, Takahiro; Kajihara, Saimoku; Ashikawa,  
Yuki

CORPORATE SOURCE: Murakami, Hiroshi; Saito, Masahito  
Department of Bioscience and Biotechnology  
Faculty of  
Engineering, Okayama University, Okayama,  
700-8530, JAPAN

SOURCE: Japan  
Journal of the American Chemical Society (1999),  
121(1), 24-28  
CODEN: JACSATY ISSN: 0002-7663

PUBLISHED: American Chemical Society  
JOURNAL: English

AB: Efficiencies of the incorporation of various nonnatural amino acids  
carrying arom. side groups into streptavidin were examd. The arom.  
amino acids were linked to a mixed disulfide, pDGA, and the resulting  
amino-yl pDGA was coupled with UBAACCU(CA) to afford diam.  
aminoacylated UBAACCU(CA). Mutant streptavidin (A8A cont.) a C60G &  
base

codon at the Tyr83 site was prep. and added to an Escherichia coli  
in vitro translation system with the amino-yl UBAACCU(CA). The  
expression of

the full-length mutant streptavidin was confirmed by a Western blot  
anal., and their biotin binding activity was examd. By a dot blot

The Western blot anal. indicated that the efficiencies of the  
incorporation were higher for arom. groups with straight  
configurations

than those with widely expanded or bend configurations. The  
incorporation

efficiencies were also examd. in a rabbit reticulocyte lysate. In  
the latter system, the efficiencies were markedly improved for nonnatural  
amino acids with large side groups such as pyrene and anthraquinone.

157670-01-7 CAPLUS  
His BPR (Biological process); BPR (Biological study, unclassified);  
RCT

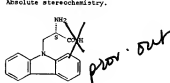
(Reactant); B10L (Biological study); FRAC (Process); RACT (Reactant  
or reagent)

(efficient incorporation of nonnatural amino acids with large  
arom. groups into streptavidin in in vitro protein synthesizing systems)

RX 157670-01-7 CAPLUS  
CN 9H-Carbazole-9-propenoic acid, .alpha.-amino-, (1.alpha.S)- (PCI) (CA  
INDEX NAME)

L7 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

Absolute stereochemistry.



IT 225846-41-4  
R1: BPR (Biological process); BPR (Biological study, unclassified);  
RCT

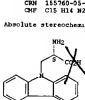
(Reactant); BPR (Synthetic preparation); B10L (Biological study); FRAC  
(Preparation); FRAC (Process); RACT (Reactant or reagent)

(efficient incorporation of nonnatural amino acids with large arom.  
groups into streptavidin in in vitro protein synthesizing systems)

RX 225846-41-4 CAPLUS  
CN Adenosine, 2'-deoxy-5'-O-phosphoronylmethyl-3'-(2,4-dihydroxy-5'-  
3'-(1.alpha.S)-.alpha.-amino-9H-carbazole-9-propenoate) [PCI] (CA  
INDEX NAME)

CH 1  
CIN 155760-03-7  
CQ C15 H14 N2 O2

Absolute stereochemistry.



CN 127067-28-1  
CQ C15 H14 N2 O2

Absolute stereochemistry.

REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE  
FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

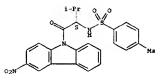
N[C@@H]1CN2C(=O)N(C(=O)O)C2S1

13-	GW-N-dialkylindanalkyl benzoyl-[(2)benzopyranol-4,3-b]indol-5-[1H] ones, or (N-alkyl)chromonemethylol-1,7: 7OAL2 = 3-pyridyl-tereph-, (CH2)2NNE2, (CH2)2NNE2, etc.) have led to the identification of this class
IV	of compds. as potential nonaromatic analgesic agents.
139214-19-0	139214-19-0
EN	ENL: MACP (Biological activity or effector, except adverse); THU (Therapeutic use); BICL (Biological study); USES (Uses) [analgesic activity of, structure in relation to]
EN	139214-19-0 CAPLAS
CN	CN: 139214-19-0 CAPLAS (2)benzopyranol-4,3-b]indol-5-[1H] ones, 13-[2-(diethylamino)ethyl]-9[1H]-[9C1] (CA, INHIB, NAME)

CC(C)(C)C(=O)Nc1ccc2c3c(c1)c(=O)oc4ccccc24CN(C)CC1=CC=C2C(=C1)C(=C3C(=C2)C(=C4C(=C3)C(=C5C(=C4)C(=C6C(=C5)C(=C7C(=C6)C(=C8C(=C7)C(=C9C(=C8)C(=C10C(=C9)C(=C11C(=C10)C(=C12C(=C11)C(=C13C(=C12)C(=C14C(=C13)C(=C15C(=C14)C(=C16C(=C15)C(=C17C(=C16)C(=C18C(=C17)C(=C19C(=C18)C(=C20C(=C19)C(=C21C(=C20)C(=C22C(=C21)C(=C23C(=C22)C(=C24C(=C23)C(=C25C(=C24)C(=C26C(=C25)C(=C27C(=C26)C(=C28C(=C27)C(=C29C(=C28)C(=C30C(=C29)C(=C31C(=C30)C(=C32C(=C31)C(=C33C(=C32)C(=C34C(=C33)C(=C35C(=C34)C(=C36C(=C35)C(=C37C(=C36)C(=C38C(=C37)C(=C39C(=C38)C(=C40C(=C39)C(=C41C(=C40)C(=C42C(=C41)C(=C43C(=C42)C(=C44C(=C43)C(=C45C(=C44)C(=C46C(=C45)C(=C47C(=C46)C(=C48C(=C47)C(=C49C(=C48)C(=C50C(=C49)C(=C51C(=C50)C(=C52C(=C51)C(=C53C(=C52)C(=C54C(=C53)C(=C55C(=C54)C(=C56C(=C55)C(=C57C(=C56)C(=C58C(=C57)C(=C59C(=C58)C(=C60C(=C59)C(=C61C(=C60)C(=C62C(=C61)C(=C63C(=C62)C(=C64C(=C63)C(=C65C(=C64)C(=C66C(=C65)C(=C67C(=C66)C(=C68C(=C67)C(=C69C(=C68)C(=C70C(=C69)C(=C71C(=C70)C(=C72C(=C71)C(=C73C(=C72)C(=C74C(=C73)C(=C75C(=C74)C(=C76C(=C75)C(=C77C(=C76)C(=C78C(=C77)C(=C79C(=C78)C(=C80C(=C79)C(=C81C(=C80)C(=C82C(=C81)C(=C83C(=C82)C(=C84C(=C83)C(=C85C(=C84)C(=C86C(=C85)C(=C87C(=C86)C(=C88C(=C87)C(=C89C(=C88)C(=C90C(=C89)C(=C91C(=C90)C(=C92C(=C91)C(=C93C(=C92)C(=C94C(=C93)C(=C95C(=C94)C(=C96C(=C95)C(=C97C(=C96)C(=C98C(=C97)C(=C99C(=C98)C(=C100C(=C99)C(=C101C(=C100)C(=C102C(=C101)C(=C103C(=C102)C(=C104C(=C103)C(=C105C(=C104)C(=C106C(=C105)C(=C107C(=C106)C(=C108C(=C107)C(=C109C(=C108)C(=C110C(=C109)C(=C111C(=C110)C(=C112C(=C111)C(=C113C(=C112)C(=C114C(=C113)C(=C115C(=C114)C(=C116C(=C115)C(=C117C(=C116)C(=C118C(=C117)C(=C119C(=C118)C(=C120C(=C119)C(=C121C(=C120)C(=C122C(=C121)C(=C123C(=C122)C(=C124C(=C123)C(=C125C(=C124)C(=C126C(=C125)C(=C127C(=C126)C(=C128C(=C127)C(=C129C(=C128)C(=C130C(=C129)C(=C131C(=C130)C(=C132C(=C131)C(=C133C(=C132)C(=C134C(=C133)C(=C135C(=C134)C(=C136C(=C135)C(=C137C(=C136)C(=C138C(=C137)C(=C139C(=C138)C(=C140C(=C139)C(=C141C(=C140)C(=C142C(=C141)C(=C143C(=C142)C(=C144C(=C143)C(=C145C(=C144)C(=C146C(=C145)C(=C147C(=C146)C(=C148C(=C147)C(=C149C(=C148)C(=C150C(=C149)C(=C151C(=C150)C(=C152C(=C151)C(=C153C(=C152)C(=C154C(=C153)C(=C155C(=C154)C(=C156C(=C155)C(=C157C(=C156)C(=C158C(=C157)C(=C159C(=C158)C(=C160C(=C159)C(=C161C(=C160)C(=C162C(=C161)C(=C163C(=C162)C(=C164C(=C163)C(=C165C(=C164)C(=C166C(=C165)C(=C167C(=C166)C(=C168C(=C167)C(=C169C(=C168)C(=C170C(=C169)C(=C171C(=C170)C(=C172C(=C171)C(=C173C(=C172)C(=C174C(=C173)C(=C175C(=C174)C(=C176C(=C175)C(=C177C(=C176)C(=C178C(=C177)C(=C179C(=C178)C(=C180C(=C179)C(=C181C(=C180)C(=C182C(=C181)C(=C183C(=C182)C(=C184C(=C183)C(=C185C(=C184)C(=C186C(=C185)C(=C187C(=C186)C(=C188C(=C187)C(=C189C(=C188)C(=C190C(=C189)C(=C191C(=C190)C(=C192C(=C191)C(=C193C(=C192)C(=C194C(=C193)C(=C195C(=C194)C(=C196C(=C195)C(=C197C(=C196)C(=C198C(=C197)C(=C199C(=C198)C(=C200C(=C199)C(=C201C(=C200)C(=C202C(=C201)C(=C203C(=C202)C(=C204C(=C203)C(=C205C(=C204)C(=C206C(=C205)C(=C207C(=C206)C(=C208C(=C207)C(=C209C(=C208)C(=C210C(=C209)C(=C211C(=C210)C(=C212C(=C211)C(=C213C(=C212)C(=C214C(=C213)C(=C215C(=C214)C(=C216C(=C215)C(=C217C(=C216)C(=C218C(=C217)C(=C219C(=C218)C(=C220C(=C219)C(=C221C(=C220)C(=C222C(=C221)C(=C223C(=C222)C(=C224C(=C223)C(=C225C(=C224)C(=C226C(=C225)C(=C227C(=C226)C(=C228C(=C227)C(=C229C(=C228)C(=C230C(=C229)C(=C231C(=C230)C(=C232C(=C231)C(=C233C(=C232)C(=C234C(=C233)C(=C235C(=C234)C(=C236C(=C235)C(=C237C(=C236)C(=C238C(=C237)C(=C239C(=C238)C(=C240C(=C239)C(=C241C(=C240)C(=C242C(=C241)C(=C243C(=C242)C(=C244C(=C243)C(=C245C(=C244)C(=C246C(=C245)C(=C247C(=C246)C(=C248C(=C247)C(=C249C(=C248)C(=C250C(=C249)C(=C251C(=C250)C(=C252C(=C251)C(=C253C(=C252)C(=C254C(=C253)C(=C255C(=C254)C(=C256C(=C255)C(=C257C(=C256)C(=C258C(=C257)C(=C259C(=C258)C(=C260C(=C259)C(=C261C(=C260)C(=C262C(=C261)C(=C263C(=C262)C(=C264C(=C263)C(=C265C(=C264)C(=C266C(=C265)C(=C267C(=C266)C(=C268C(=C267)C(=C269C(=C268)C(=C270C(=C269)C(=C271C(=C270)C(=C272C(=C271)C(=C273C(=C272)C(=C274C(=C273)C(=C275C(=C274)C(=C276C(=C275)C(=C277C(=C276)C(=C278C(=C277)C(=C279C(=C278)C(=C280C(=C279)C(=C281C(=C280)C(=C282C(=C281)C(=C283C(=C282)C(=C284C(=C283)C(=C285C(=C284)C(=C286C(=C285)C(=C287C(=C286)C(=C288C(=C28● **RC1**

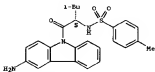
L7 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1984192230 CAPLUS  
 DOCUMENT NUMBER: 1984192230  
 TITLE: Synthesis and biological activity of some new substituted aminomyl-carbazole derivatives.  
 Part II  
 AUTHOR(S): El-Maghr, A. M.; Ahmed, F. S. M.; Abd El-Salam, A.  
 CORPORATE SOURCE: M. A. El-Ghazzer, M. A. Fed. Sci., Al-Azhar Univ., Nasser City, Egypt  
 SOURCE: Arab Gulf J. Sci. Res. (1993), 1(1), 171-9  
 COUNTRY: AGRUS  
 JOURNAL  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 G1 For diagram(s), see related CA Index.  
 AB Title compdr. 1 [R = phthalyl (Pht), X = Gly, .beta.-Ala, Ala, Val, Leu  
 EL-Phe; R = tosyl (Tos), X = .beta.-Ala, Ala, Val, Leu; R1 = NO2] were  
 prepd. in 60-100% yields by condensing R-X-OH with 3-nitro-9H-carbazole by  
 SOC 18  
 THP. 1 [R = Pht, X = .beta.-Ala, Ala, Val, Leu; R1 = NH2] were  
 prepd. in 50-61% yields by reducing the corresponding 1 [R1 = NO2] by  
 Sa/PCl. 1  
 (R = H; X = .beta.-Ala, Ala, Val, Leu, EL-Phe; R1 = NO2) were prepd. in  
 15-41% yields by the hydrazinolysis of the corresponding 1 [R = Pht].  
 Several 1 exhibited antimicrobial activities against several microorganisms:  
 v.-sp. 1 [R = Pht, X = Gly, R1 = NO2] was active against Bacillus subtilis  
 et c. min. inhibitory concn. of 25 .mu.g/ml.  
 IT 83277-40-19 83277-41-29  
 RI: SPN [Synthetic preparation]; PREP [Preparation]  
 (Prepn. and antim. and antimicrobial activity of)  
 CN 83277-40-1 CAPLUS  
 CN 9H-Carbazole;  
 9-(3-methyl-2-[[4-(4-methylphenyl)sulfonyl]amino]-1-oxobutyl]-  
 3-nitro-, (S)- (R1) [CA INDEX NAME]

Absolute stereochemistry.



RN 83277-41-2 CAPLUS

L7 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 83277-51-4 CAPLUS  
 CN 9H-Carbazole, 9-(2-amino-3-methyl-1-oxobutyl)-3-nitro-, (S)- (R1)  
 (CA INDEX NAME)

Absolute stereochemistry.



RN 83277-52-5 CAPLUS  
 CN 9H-Carbazole, 9-(2-amino-4-methyl-1-oxobutyl)-3-nitro-, (S)- (R1)  
 (CA INDEX NAME)

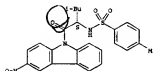
Absolute stereochemistry.



RN 83277-53-6 CAPLUS  
 CN 9H-Carbazole, 9-(2-amino-1-oxo-3-phenylpropyl)-3-nitro- (R1) (CA INDEX NAME)

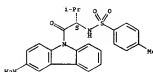
L7 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 CN 9H-Carbazole,  
 9-(4-methyl-2-[[4-(4-methylphenyl)sulfonyl]amino]-1-oxobutyl]-  
 3-nitro-, (S)- (R1) [CA INDEX NAME]

Absolute stereochemistry.



IT 83277-40-19 83277-40-19 83277-41-49  
 83277-42-59 83277-43-59  
 RI: SPN [Synthetic preparation]; PREP [Preparation]  
 (Prepn. and)  
 RN 83277-40-1 CAPLUS  
 CN 9H-Carbazole-3-amine,  
 9-(3-methyl-2-[[4-(4-methylphenyl)sulfonyl]amino]-1-  
 oxobutyl]-, (S)- (R1) [CA INDEX NAME]

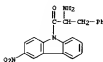
Absolute stereochemistry.



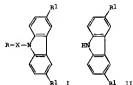
RN 83277-43-0 CAPLUS  
 CN 9H-Carbazole-3-amine,  
 9-(4-methyl-2-[[4-(4-methylphenyl)sulfonyl]amino]-1-  
 oxobutyl]-, (S)- (R1) [CA INDEX NAME]

Absolute stereochemistry.

L7 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



L7 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 199319943 CAPLUS  
 DOCUMENT NUMBER: 9819943  
 TITLE: Synthesis and biological activity of some new melonipyronebenzole derivatives. Part I  
 AUTHOR(S): El-Megayer, A. M.; Ahmed, F. S. M.; Abd El-Salem, M. S.; El-Gattar, M. A.  
 CORPORATE SOURCE: Fac. Sci., Al-Azhar Univ., Cairo, Egypt  
 SOURCE: J. Heterocycl. Chem. (1992), 19(3), 1023-9  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI

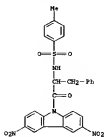


AB Title compds. I [R = phthalyl (Pht); R1 = H, NO2; X = Gly, .beta.-Ala, .beta.-Ala, Val, Leu, Ot-Phe; R = tosyl (Tos), R1 = H, X = Gly, .beta.-Ala, Val, Leu, Ot-Phe; R = Tos, R1 = NO2, X = .beta.-Ala, Ot-Phe] were prepd. in 54-68% yields by condensing carbazoles II (R1 = H, NO2) with the appropriate R-X-OH by DCC. I [R = Pht, R1 = H, X = .beta.-Ala, .beta.-Ala, Val, Leu, Ot-Phe; R = Pht, R1 = NO2, X = Ala] were deblocked by hydrazinolysis to give I [R = H, X1 = X = none] in 55-64% yields. I [R = Pht, R1 = NO2, X = .beta.-Ala, Ala, Val, Leu, Ot-Phe] were reduced by SnCl2 to give the corresponding I [R1 = ME2] in 52-55% yields. Several title compds., e.g. I [R = Pht, R1 = H, X = .beta.-Ala], exhibited antitumor activity against 4 no. of microcytes, i.e., Hemilium mobile.  
 IT 84708-76-8 84708-74-7 84708-75-8  
 84708-76-8 84708-74-7 84708-75-8  
 84708-76-8 84708-74-7 84708-75-8  
 R1: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); B101 (Biological study); PREP (Preparation)

L7 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

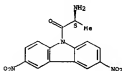


IN 84708-84-9 CAPLUS  
 CN 98-Carbazole,  
 9-[2-[[[4-methylphenyl]sulfonyl]amino]-1-oxo-3-phenylpropyl]-3,6-dinitro- (PCI) (CA INDEX NAME)



IN 84708-85-0 CAPLUS  
 CN 98-Carbazole,  
 9-[2-amino-1-oxopropyl]-3,6-dinitro-, (S)- (PCI) (CA INDEX NAME)

Absolute stereochemistry.



L7 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 (prepn. and antibacterial activity of)  
 IN 84708-73-6 CAPLUS  
 CN 98-Carbazole,  
 9-[2-amino-1-oxopropyl]-, (S)- (PCI) (CA INDEX NAME)  
 Absolute stereochemistry.



IN 84708-74-7 CAPLUS  
 CN 98-Carbazole,  
 9-[2-amino-3-methyl-1-oxobutyl]-, (S)- (PCI) (CA INDEX NAME)

Absolute stereochemistry.



IN 84708-75-8 CAPLUS  
 CN 98-Carbazole,  
 9-[2-amino-4-methyl-1-oxopentyl]-, (S)- (PCI) (CA INDEX NAME)

Absolute stereochemistry.

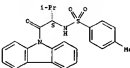


IN 84708-76-9 CAPLUS  
 CN 98-Carbazole,  
 9-[2-amino-1-oxo-3-phenylpropyl]- (PCI) (CA INDEX NAME)

L7 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

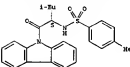
IT 84708-69-0 84708-70-3 84708-71-4  
 R1: SPN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)  
 IN 84708-69-0 CAPLUS  
 CN 98-Carbazole,  
 9-[3-methyl-2-[[[4-methylphenyl]sulfonyl]amino]-1-oxobutyl]-, (S)- (PCI) (CA INDEX NAME)

Absolute stereochemistry.



IN 84708-70-3 CAPLUS  
 CN 98-Carbazole,  
 9-[4-methyl-2-[[[4-methylphenyl]sulfonyl]amino]-1-oxopentyl]-, (S)- (PCI) (CA INDEX NAME)

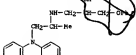
Absolute stereochemistry.



IN 84708-71-4 CAPLUS  
 CN 98-Carbazole,  
 9-[2-[[[4-methylphenyl]sulfonyl]amino]-1-oxo-3-phenylpropyl]- (PCI) (CA INDEX NAME)





[illegible]

ANKERA 15 of 18 CAPS COPYRIGHT 2020 ACS  
 ACCESSION NUMBER: 1564-9697/001 F0001  
 DOCUMENT NUMBER: 68-04573  
 TITLE: Method of treating depression  
 INVENTOR: Edward M. Frost, Wayne R.  
 PATENT ASSIGNEE(s): American Home Products Corp.  
 SOURCE:   
 COUNTRY: US/USA  
 DOCUMENT TYPE: English  
 LANGUAGE: English  
 FAMILY ACCT. NO. /CONF. #:  
 PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
US 3729371	1967/07/04	US	1966/02/03

(I) **Abstract:** In human beings,  $\alpha$ -methyl-3-(2-methyl-5-pyridyl)-2-thioethanethiol (VI) in 100 cc. NMCN/240 was added slowly to 0.12 mole NaCl (c. 48% dispersion) suspended in 50 cc. DMF by vigorous stirring, the conc. slowly raised to 30-5 degree, until 1/2 evolution of  $H_2$  was readily detected.  $\alpha$ -methyl-3-(2-methyl-5-pyridyl)-2-thioethanethiol (VI) was added to the suspension, the mixt. stirred and heated to 50 degree, 6 hrs., poured into 300 cc. ice water, and extd. with Et<sub>2</sub>O, the Et<sub>2</sub>O layer worked up, and the residue at rt. RT. treated with dry HCl to give the free base, 2-(2-methyl-5-pyridyl)-2-methyl-3-thioethanethiol (VII), mp 207-5 degree. (Et<sub>2</sub>O=H<sub>2</sub>O=20). (This is procedure A). The free base was reprecipitated from Et<sub>2</sub>O. If so described, the reaction is quantitative.

(II) **Experimental:** 0.12 mole NaCl was poured into ice water, the Et<sub>2</sub>O layer extd. with Et<sub>2</sub>O, the Et<sub>2</sub>O layer washed with aq. NaCl soln. several times with 100-cc. portions 2N HCl, the Et<sub>2</sub>O soln. washed with aq. NaCl, dried, and evapd. to give the free base (V) corresponding to A as a viscous yellow oil, b.p. 180-5 degree. (n<sub>D</sub><sup>20</sup> 1.011-0.1 degree. (CHCl<sub>3</sub>/Et<sub>2</sub>O) V methiodide, m. 186-7 degree. (I) (0.1 mole) was added to a well-stirred suspension of 0.1 mole of the Na salt of 2-(2-methyl-5-pyridyl)-2-thioethanethiol (VI) in 150 cc. DMF. After 6 hrs., the reaction mixture was poured into 500 cc. ice water, the oil layer extd. with Et<sub>2</sub>O, the Et<sub>2</sub>O soln. washed with H<sub>2</sub>O, extd. with 2N HCl until acidic, and extd. with Et<sub>2</sub>O, the aq. soln. washed with H<sub>2</sub>O, 240, beffied, and extd. with Et<sub>2</sub>O, and the Et<sub>2</sub>O soln. washed with H<sub>2</sub>O, dried, and evapd. to give an orange

ANWER 15 OF 13 CAPLUS COPYRIGHT 2002 ACS [Continued]  
11 11-12 degrees. The suspension of 0.1 mole of the Na drier  
was treated with 0.1 mole freshly dried  
1-L-etho-2-chloroethylpyrrolidyl-2,3-pentasteylene  
12-20 at 50 degrees, 6 hrs. The mixt. poured into 300 cc. low water,  
aq. concd. HCl added, this mixt. satd. several times with Et2O, the  
worked  
aq. layer heified, the product taken up in Et2O, and the Et2O mxt.  
was  
to give 9 g. 1-L-etho-2-pyrrolidinoethyl-2,3-pentasteylene h0.2  
1-L-etho-2-pyrrolidinoethyl-2,3-pentasteylene (0.20 mole)  
was added slowly with cooling to a solution of 11 and 0.4 mole  
triethylthiazoliumazanium methiodide (40% in H2O) to 100 cc. CH2Cl2.  
The mxt. stirred, reached 50 degrees (dried in vacuo). The mixt. was  
worked  
stirred and cooled to 10 degrees. The mxt. was stirred and  
to give 16.61 g. 1-L-etho-2-(thio-2-pyrrolidinoethyl)-2,3-pentasteylene (X2),  
94.5-degree. (H2C=O-HOH). (This is procedure D). A soln. of 0.1  
mole XII  
94.5-degree, 0.9 g. CH2Cl2 was added slowly to a stirred suspension of 0.15  
mole  
X1A1E in 500 cc. dry Et2O, the mixt. heated to reflux and stirred  
overnight, 30 cc. Et2O added slowly with cooling, the mxt. passed  
br. and filtered, and the filtrate evapd. to give 0.14 g. 1-L-etho-2-  
pyrrolidinoethyl-2,3-pentasteylene (X1).  
271.5-degree. (H2C=O-HOH). (This is procedure B). Also,  
1-L-etho-2-pyrrolidinoethyl-2,3-pentasteylene (X1) was prepared  
was prepd. from 0.05 mole of the 5-fluorenyl drier, of 11 and 0.05 mole 111  
using procedure A. The free base Bp 137-80 degrees; HCl salt Bp  
137-80 degrees.  
1-L-etho-2-pyrrolidinoethyl-2,3-pentasteylene-  
1-gamma-dimethylaminoethyl-2,3-pentasteylene-  
was prepd. from 0.5 mole of the 5-chloro drier, of 11  
and 0.5 mole 111 using procedure B. The free base Bp 105-15-8 degrees. (62.5  
yield); fumarate salt Bp 161-22 degrees.  
1-L-etho-2-pyrrolidinoethyl-2,3-  
1-gamma-dimethylaminoethyl-2,3-pentasteylene-  
was prepd. from 0.05 mole 11 and 0.05 mole  
dried triethylthiazoliumchloride (HCl) using procedure A. The base  
Bp 105-137 degrees.  
1-L-etho-2-pyrrolidinoethyl-2,3-pentasteylene-  
1-gamma-dimethylaminoethyl-2,3-pentasteylene was prepd. from 0.56 g. VI  
5-30 g. XII using procedure B. The free base Bp 130-130 degrees.  
Fumarate  
salt Bp 195-201.9 degrees.  
1-L-etho-2-pyrrolidinoethyl-2,3-pentasteylene-  
1-gamma-dimethylaminoethyl-2,3-pentasteylene was prepd. from 0.05 mole VI and 0.5 mole VIII using procedure C. The  
1-gamma-dimethylaminoethyl-  
2,3-pentasteylene was prepd. from 0.03 mole 2,3-  
tridecylthiazoliumchloride and 0.9 mole 111 using procedure A. The  
Fumarate

17 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 m. 147.5-15.0 degrees. [I] (0.05 mole) was treated with 0.08 mole  
 8-(dimethyl-1-beta-phenyl-beta-chloroethylamine) using procedure  
 A. The  
 free base m. 120-2 degrees. J fumarate m. 191-7 degrees.  
 was 1-[(gamma-4-methyl-1-piperazinyl)propyl]-2,3-pentamethylindole  
 prep'd. from 0.027 mole II and 0.027 mole 1-methyl-4-[(gamma-  
 chloroethyl)piperazine] (XIII) using procedure A. The fumarate m.  
 217.5-18.5 degrees. Treatment of 0.0276 mole VI with 0.0276 mole  
 XIII  
 using procedure A gave  
 1-(gamma-4-methyl-1-piperazinyl)propyl]-2,3-  
 hexamethylindole-2-HCl. m. 239-42 degrees. J difumarate m.  
 216-1 degrees.  
 Also,  
 1-(gamma-4-methylaminopropyl)-2,3-pentamethyl-5-nitroindole was  
 prep'd. from 0.02 mole of the 5-nitro deriv. of II and 0.02 mole III  
 using  
 procedure A. The free base m. 77.5-80.0 degrees. HCl salt m.  
 220-3 degrees. J fumarate (XIV) m. 279-80 degrees.  
 1-beta-Cyanoethyl-  
 2,3-hexamethylindole (XV) was prep'd. from 0.5 mole VI, 0.46 mole  
 acrylonitrile, and 2 cc. trimethylammonium methoxide using  
 procedure B. XV (0.107 mole) was converted to 1-(gamma-aminopropyl)-2,3-  
 hexamethylindole (VII), mp 2. 142-8 degrees. X20 1.589, using  
 procedures  
 X. XIV (0.1 mole) was dissolved in 100 cc. MeOH and hydrolyzed  
 over  
 100 mg. Pd/C at 45 psi. and 75 degrees. After 4 hrs., the catalyst  
 was filtered off, the solvent evap'd. in vacuo, the residue taken up in  
 Et2O, the mixt. acidified with 10% MeOH and ext'd. with Et2O, and the Et2O  
 phase  
 washed up and treated with dry HCl to give  
 1-(gamma-4-methylaminopropyl)-  
 2,3-pentamethyl-5-methoxyindole-HCl. m. 260-1 degree. (iso-PROM).  
 To a  
 soln. of 0.045 mole XVI in 50 cc. MeOH, 0.1 mole ethylene oxide was  
 added  
 slowly. After 2 days, the MeOH was evap'd. and the residue dried, to  
 give  
 17.9  
 1-(gamma-4-[2-(hydroxyethyl)-amino]propyl)-2,3-hexamethylindole.  
 NO. 002 148-50 degrees. Using procedure A, 0.029 mole 2,3-  
 octamethylindole was treated with 0.029 mole III. The fumarate m.  
 176-6 degrees. (Xcomp.). [I] (0.03 mole) was treated with 0.033  
 mole XIII  
 using procedure A to give 1-(gamma-4-piperazinylpropyl)-2,3-  
 pentamethylindole difumarate m. 172-4 degrees. VI (0.08 mole) was  
 treated with 0.05 mole IX using procedure A to give 1-(beta-  
 morpholinomethyl)-2,3-hexamethylindole fumarate m. 174-5 degrees.  
 Using  
 procedure A, 0.04 mole VI was treated with 0.04 mole X to give  
 1-(beta-pyrrolidinomethyl)-2,3-hexamethylindole fumarate m.

17 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

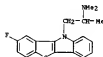


17 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 231-3 degrees. XI (0.17 mole) dissolved in 300 cc. MeOH was  
 sed'd.  
 with dry HCl, 2 cc. MeOH added and the mixt. refluxed 2 hrs., cooled to  
 room temp., the susp. H2SO4 filtered, the filtrate conc'd. in vacuo,  
 the residue taken up in Et2O, and the Et2O ext. worked up to yield 31 g.  
 1-[(beta-cyanoethylmethyl)-2,3-pentamethylindole] (XVII), NO. 05  
 220-5 degrees. (This is procedure VI. XVII (0.11 mole) in 200 cc  
 dry  
 Et2O was added slowly to a stirred suspension of 0.05 mole LiAlH4 in  
 200  
 cc. dry Et2O, the reaction mixt. refluxed 4 hrs. and cooled, 12 cc.  
 sodium hydride disp'd., and then 50 cc. iso-PrOH, the suspension filtered,  
 and the  
 filtrate conc'd. to yield 22.1 g. 1-(gamma-hydroxypropyl)-2,3-  
 pentamethylindole, NO. 03 210-15 degrees. Then, 0.02 mole of the  
 above  
 comp'd., 10 cc. 48% aq. HBr, and 2 cc. conc'd. H2SO4 was refluxed 1.5  
 hrs.,  
 cooled, poured onto ice, and ext'd. with Et2O to give 2.8 g.  
 1-(gamma-chloropropyl)-2,3-pentamethylindole, NO. 06 181-90 degrees.  
 Then, a mixt. of 0.034 mole this comp'd. and 0.03 mole 8-(beta-  
 hydroxyethyl)piperazine in 100 cc. xylene was refluxed 24 hrs.,  
 cooled,  
 and worked up and dry HCl added to ppt. 1-(gamma-4-(beta-  
 hydroxyethyl)piperazinopropyl)-2,3-pentamethylindole-HCl. m.  
 209-10 degrees. (EtOH). Using procedure A, the 5-methyl deriv. of II  
 was  
 treated with III to give 1-(gamma-4-methylaminopropyl)-2,3-  
 pentamethyl-5-methylindole fumarate, m. 141-5-5.0 degrees. XV was  
 converted to 1-(beta-cyanoethylmethyl)-2,3-hexamethylindole, m.  
 62-4 degrees., using procedure F with 1350 cc. MeOH and 5 cc. Et2O.  
 This  
 comp'd. (10 g.) in 50 cc. MeOH sed'd. at 0 degrees, with H2SO4 was kept at  
 room temp. 48 hrs. to give 1-(beta-methylcyanoethylmethyl)-2,3-  
 hexamethylindole, m. 115-164 (MeOH). Then, 11 g. of this product  
 in 500  
 cc. CHCl3 was treated with 10 g. LiAlH4 in 1 l. dry Et2O and the mixt.  
 decanted, with 20 cc. Et2O to yield 1-(gamma-ethylmethylmethyl)-2,3-  
 hexamethylindole, NO. 1 160-70 degrees. HCl salt m. 140-1 degrees.

The  
 results of clinical tests of VII were given  
 2182-31-07  
 R1: R2: (Synthetic preparation) PRP: (Preparation)  
 (group, 47)  
 2182-31-07 CAPLUS  
 CN Cyclic(10)indole,  
 5-[2-(dimethylamino)propyl]-5,6,7,8,9,10-hexamethoxy-  
 amine hydrochloride (HCl) (CA INDEX NAME)  
 17 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1964425255 CAPLUS  
 DOCUMENT NUMBER: 61-21215  
 ORIGINAL REFERENCE NO.: 61-43007-9  
 TITLE: Anticarcinogen agents. Derivatives of  
 2,3-polythienylindole  
 AUTHOR(S):  
 BACE, Leonard W.; HARRIS, Elizabeth Freed; MAIER,  
 RUTH  
 CORPORATE SOURCE:  
 Wyeth Labs., Philadelphia, PA  
 SOURCE:  
 J. Med. Chem. (1964), 7(3), 312-19  
 DOCUMENT TYPE:  
 Journal  
 LANGUAGE:  
 Unavailable  
 AB A series of substituted 2,3-polythienylindole was prep'd. from  
 phenylhydrazines and aliphatic ketones by the Boppe-Caron  
 modification  
 (CA 42, 1261a) of the Fischer indole synthesis or by the method of  
 Hsu Hsi  
 (CA 44, 7387g). Alkylation of the Hsu deriv. of the  
 polythienylindole  
 with dialkylammonium chlorides gave N-alkyl derivs. The Hsu deriva.  
 were  
 prep'd. by treating the indoles in HCONH2 with 44% MeOH mineral oil  
 with  
 HCONH2 as solvent. The comp'ds. were tested for central nervous  
 system  
 activity and weight loss activity. Some were active as  
 antidepressants.  
 In the weight loss test,  
 1-[3-(diethylamino)propyl]-4,7,8,9,10,11-hexamethoxy-  
 HCl-cycloocta(h)indole was the most active. The comp'ds. are in the  
 same  
 pyropharmaco. family as imipramine.  
 R1: R2: 4-methyl, Cycloocta(h)indole, 5-[2-(dimethylamino)propyl]-  
 5,6,7,8,9,10-hexamethoxy, hydrochloride 101058-8-9,  
 HCl-cycloocta(h)indole  
 5-[2-(dimethylamino)propyl]-4,7,8,9,10,11-hexamethoxy-  
 fumarate  
 (group, 47)  
 101058-8-9-0 CAPLUS  
 CN Cycloocta(h)indole,  
 5-[2-(dimethylamino)propyl]-5,6,7,8,9,10-hexamethoxy,  
 hydrochloride (HCl) (CA INDEX NAME)

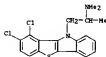


17 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 (dimethylamino)propyl]-7-ethoxy-, hydrochloride 98009-26-6,  
 10H-[1]Benzothieno[3,2-b]indole,  
 3-chloro-10-[2-(dimethylamino)propyl]-7-  
 -ethoxy-, 98009-26-6, 10H-[1]Benzothieno[3,2-b]indole,  
 7-chloro-10-[2-(dimethylamino)propyl]-3-methoxy-, hydrochloride  
 100026-76-8, 10H-[1]Benzothieno[3,2-b]indole, 3-chloro-10-[2-  
 (dimethylamino)propyl]-7-methoxy- 100022-21-3,  
 10H-[1]Benzothieno[3,2-b]indole,  
 3-chloro-10-[2-(dimethylamino)propyl]-7-  
 -methoxy-, hydrochloride 100048-01-9, 10H-[1]Benzothieno[3,2-  
 b]indole, 10-[2-(dimethylamino)propyl]-7-ethoxy-, hydrochloride  
 100049-32-8, 10H-[1]Benzothieno[3,2-b]indole, 10-[2-  
 (dimethylamino)propyl]-3,7-dimethoxy-, hydrochloride 101042-05-0,  
 10H-[1]Benzothieno[3,2-b]indole, 7,6-dichloro-10-[2-  
 (dimethylamino)propyl]-, hydrochloride 104000-01-8,  
 10H-[1]Benzothieno[3,2-b]indole,  
 10-[2-(dimethylamino)propyl]-9-methoxy-,  
 hydrochloride 104708-03-9, 10H-[1]Benzothieno[3,2-b]indole,  
 10-[2-(dimethylamino)propyl]-, hydrochloride  
 (free), 477  
 RN 437-65-0 CAPLUS  
 CN 100-[1]Benzothieno[3,2-b]indole-10-ethanamine, 6-fluoro-N,N',alpha.-  
 trimethyl-, monohydrochloride (HCl) (CA INDEX NAME)



● HCl

RN 437-66-1 CAPLUS  
 CN 100-[1]Benzothieno[3,2-b]indole-10-ethanamine, 7-fluoro-N,N',alpha.-  
 trimethyl-, monohydrochloride (HCl) (CA INDEX NAME)



● HCl

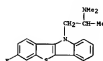
RN 98023-46-6 CAPLUS  
 CN 100-[1]Benzothieno[3,2-b]indole,  
 4-chloro-10-[2-(dimethylamino)propyl]-,  
 hydrochloride (HCl) (CA INDEX NAME)



● HCl

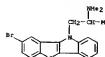
RN 98023-47-7 CAPLUS  
 CN 100-[1]Benzothieno[3,2-b]indole,  
 6-chloro-10-[2-(dimethylamino)propyl]-,  
 hydrochloride (HCl) (CA INDEX NAME)

17 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



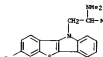
● HCl

RN 98783-35-6 CAPLUS  
 CN 100-[1]Benzothieno[3,2-b]indole,  
 7-bromo-10-[2-(dimethylamino)propyl]-,  
 hydrochloride (HCl, TCI) (CA INDEX NAME)



● HCl

RN 98783-34-7 CAPLUS  
 CN 100-[1]Benzothieno[3,2-b]indole,  
 7-bromo-10-[2-(dimethylamino)propyl]-,  
 hydrochloride (HCl, TCI) (CA INDEX NAME)



● HCl

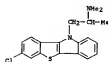
RN 98162-13-6 CAPLUS

17 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

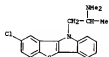


● HCl

RN 98023-49-9 CAPLUS  
 CN 100-[1]Benzothieno[3,2-b]indole,  
 7-chloro-10-[2-(dimethylamino)propyl]-,  
 (TCI) (CA INDEX NAME)



RN 98023-51-3 CAPLUS  
 CN 100-[1]Benzothieno[3,2-b]indole,  
 8-chloro-10-[2-(dimethylamino)propyl]-,  
 hydrochloride (TCI) (CA INDEX NAME)



● HCl

RN 98023-52-4 CAPLUS  
 CN 100-[1]Benzothieno[3,2-b]indole,  
 9-chloro-10-[2-(dimethylamino)propyl]-,

L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)  
hydrochloride (7CI) (CA INDEX NAME)



• N HCl

RN 98959-60-1 CAPLUS  
CN 106-[1]Benzo[thieno[3,2-b]indole,  
2-chloro-10-[2-(dimethylamino)propyl]-,  
hydrochloride (7CI) (CA INDEX NAME)



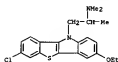
• N HCl

RN 98959-62-3 CAPLUS  
CN 106-[1]Benzo[thieno[3,2-b]indole,  
3-chloro-10-[2-(dimethylamino)propyl]-,  
hydrochloride (7CI) (CA INDEX NAME)



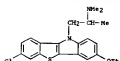
• N HCl

L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)  
RN 98959-62-5 CAPLUS  
CN 106-[1]Benzo[thieno[3,2-b]indole,  
3-chloro-10-[2-(dimethylamino)propyl]-7-  
ethoxy-, hydrochloride (7CI) (CA INDEX NAME)

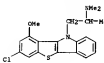


• N HCl

RN 98959-24-6 CAPLUS  
CN 106-[1]Benzo[thieno[3,2-b]indole,  
3-chloro-10-[2-(dimethylamino)propyl]-7-  
ethoxy- (7CI) (CA INDEX NAME)



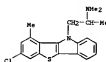
RN 98959-66-6 CAPLUS  
CN 106-[1]Benzo[thieno[3,2-b]indole,  
7-chloro-10-[2-(dimethylamino)propyl]-7-  
methoxy-, hydrochloride (6CI, 7CI) (CA INDEX NAME)



• N HCl

L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 98750-74-0 CAPLUS  
CN 106-[1]Benzo[thieno[3,2-b]indole,  
7-chloro-10-[2-(dimethylamino)propyl]-9-  
methyl-, hydrochloride (6CI, 7CI) (CA INDEX NAME)

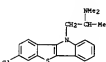


• N HCl

RN 98862-37-2 CAPLUS  
CN 106-[1]Benzo[thieno[3,2-b]indole,  
7-chloro-10-[2-(dimethylamino)propyl]-,  
methanesulfonate (6CI, 7CI) (CA INDEX NAME)

CN 1

CUN 98862-49-9  
CMF C19 H19 Cl N2 S



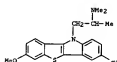
CN 2

CUN 75-75-2  
CMF C H4 Cl S

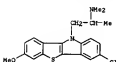


L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 100000-74-8 CAPLUS  
CN 106-[1]Benzo[thieno[3,2-b]indole,  
3-chloro-10-[2-(dimethylamino)propyl]-7-  
methoxy-, hydrochloride (6CI, 7CI) (CA INDEX NAME)

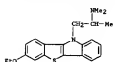


RN 100022-21-7 CAPLUS  
CN 106-[1]Benzo[thieno[3,2-b]indole,  
3-chloro-10-[2-(dimethylamino)propyl]-7-  
methoxy-, hydrochloride (6CI, 7CI) (CA INDEX NAME)

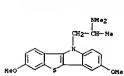


• N HCl

RN 100195-01-5 CAPLUS  
CN 106-[1]Benzo[thieno[3,2-b]indole,  
10-[2-(dimethylamino)propyl]-7-ethoxy-,  
hydrochloride (6CI, 7CI) (CA INDEX NAME)



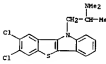
• N HCl



```

      *x  HCl
RM  101942-65-8  CAPLUS
CN  10H-[1]Benzothieno[3,2-b]indole,
    7,8-dichloro-10-[2-(dimethylemino)propyl]-
    , hydrochloride (5Cl, 7Cl) (CA INDEX NAME)

```

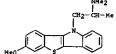


● X HCl

RN 106480-41-5 CAPLUS  
CN 10H-[1]benzothieno[3,2-b]indole,  
10-[2-(dimethylamino)propyl]-7-methoxy-,  
hydrochloride (6Cl, 7Cl) (CA INDEX NAME)

[illegible]

L7 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2002 ACS (Continued)



● HCl

IN 106785-31-3 CAPLUS  
 CN 106-[1]Benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-  
 hydrochloride (6C1, 7C1) (CA INDEX NAME)



● HCl

ANAL. Calcd. for  $C_{18}H_{22}O_4$ : C, 64.05%; H, 5.20%. Found: C, 64.0%; H, 5.2%.  
 1H NMR ( $CDCl_3$ ,  $\delta$ ): 1.0 (s, 6H,  $CH_3$ ), 1.6 (s, 6H,  $CH_3$ ), 2.0 (s, 6H,  $CH_3$ ), 3.0 (s, 6H,  $CH_3$ ), 4.0 (s, 6H,  $CH_3$ ), 5.0 (s, 6H,  $CH_3$ ), 6.0 (s, 6H,  $CH_3$ ), 7.0 (s, 6H,  $CH_3$ ), 8.0 (s, 6H,  $CH_3$ ), 9.0 (s, 6H,  $CH_3$ ), 10.0 (s, 6H,  $CH_3$ ), 11.0 (s, 6H,  $CH_3$ ), 12.0 (s, 6H,  $CH_3$ ), 13.0 (s, 6H,  $CH_3$ ), 14.0 (s, 6H,  $CH_3$ ), 15.0 (s, 6H,  $CH_3$ ), 16.0 (s, 6H,  $CH_3$ ), 17.0 (s, 6H,  $CH_3$ ), 18.0 (s, 6H,  $CH_3$ ), 19.0 (s, 6H,  $CH_3$ ), 20.0 (s, 6H,  $CH_3$ ), 21.0 (s, 6H,  $CH_3$ ), 22.0 (s, 6H,  $CH_3$ ), 23.0 (s, 6H,  $CH_3$ ), 24.0 (s, 6H,  $CH_3$ ), 25.0 (s, 6H,  $CH_3$ ), 26.0 (s, 6H,  $CH_3$ ), 27.0 (s, 6H,  $CH_3$ ), 28.0 (s, 6H,  $CH_3$ ), 29.0 (s, 6H,  $CH_3$ ), 30.0 (s, 6H,  $CH_3$ ), 31.0 (s, 6H,  $CH_3$ ), 32.0 (s, 6H,  $CH_3$ ), 33.0 (s, 6H,  $CH_3$ ), 34.0 (s, 6H,  $CH_3$ ), 35.0 (s, 6H,  $CH_3$ ), 36.0 (s, 6H,  $CH_3$ ), 37.0 (s, 6H,  $CH_3$ ), 38.0 (s, 6H,  $CH_3$ ), 39.0 (s, 6H,  $CH_3$ ), 40.0 (s, 6H,  $CH_3$ ), 41.0 (s, 6H,  $CH_3$ ), 42.0 (s, 6H,  $CH_3$ ), 43.0 (s, 6H,  $CH_3$ ), 44.0 (s, 6H,  $CH_3$ ), 45.0 (s, 6H,  $CH_3$ ), 46.0 (s, 6H,  $CH_3$ ), 47.0 (s, 6H,  $CH_3$ ), 48.0 (s, 6H,  $CH_3$ ), 49.0 (s, 6H,  $CH_3$ ), 50.0 (s, 6H,  $CH_3$ ), 51.0 (s, 6H,  $CH_3$ ), 52.0 (s, 6H,  $CH_3$ ), 53.0 (s, 6H,  $CH_3$ ), 54.0 (s, 6H,  $CH_3$ ), 55.0 (s, 6H,  $CH_3$ ), 56.0 (s, 6H,  $CH_3$ ), 57.0 (s, 6H,  $CH_3$ ), 58.0 (s, 6H,  $CH_3$ ), 59.0 (s, 6H,  $CH_3$ ), 60.0 (s, 6H,  $CH_3$ ), 61.0 (s, 6H,  $CH_3$ ), 62.0 (s, 6H,  $CH_3$ ), 63.0 (s, 6H,  $CH_3$ ), 64.0 (s, 6H,  $CH_3$ ), 65.0 (s, 6H,  $CH_3$ ), 66.0 (s, 6H,  $CH_3$ ), 67.0 (s, 6H,  $CH_3$ ), 68.0 (s, 6H,  $CH_3$ ), 69.0 (s, 6H,  $CH_3$ ), 70.0 (s, 6H,  $CH_3$ ), 71.0 (s, 6H,  $CH_3$ ), 72.0 (s, 6H,  $CH_3$ ), 73.0 (s, 6H,  $CH_3$ ), 74.0 (s, 6H,  $CH_3$ ), 75.0 (s, 6H,  $CH_3$ ), 76.0 (s, 6H,  $CH_3$ ), 77.0 (s, 6H,  $CH_3$ ), 78.0 (s, 6H,  $CH_3$ ), 79.0 (s, 6H,  $CH_3$ ), 80.0 (s, 6H,  $CH_3$ ), 81.0 (s, 6H,  $CH_3$ ), 82.0 (s, 6H,  $CH_3$ ), 83.0 (s, 6H,  $CH_3$ ), 84.0 (s, 6H,  $CH_3$ ), 85.0 (s, 6H,  $CH_3$ ), 86.0 (s, 6H,  $CH_3$ ), 87.0 (s, 6H,  $CH_3$ ), 88.0 (s, 6H,  $CH_3$ ), 89.0 (s, 6H,  $CH_3$ ), 90.0 (s, 6H,  $CH_3$ ), 91.0 (s, 6H,  $CH_3$ ), 92.0 (s, 6H,  $CH_3$ ), 93.0 (s, 6H,  $CH_3$ ), 94.0 (s, 6H,  $CH_3$ ), 95.0 (s, 6H,  $CH_3$ ), 96.0 (s, 6H,  $CH_3$ ), 97.0 (s, 6H,  $CH_3$ ), 98.0 (s, 6H,  $CH_3$ ), 99.0 (s, 6H,  $CH_3$ ), 100.0 (s, 6H,  $CH_3$ ), 101.0 (s, 6H,  $CH_3$ ), 102.0 (s, 6H,  $CH_3$ ), 103.0 (s, 6H,  $CH_3$ ), 104.0 (s, 6H,  $CH_3$ ), 105.0 (s, 6H,  $CH_3$ ), 106.0 (s, 6H,  $CH_3$ ), 107.0 (s, 6H,  $CH_3$ ), 108.0 (s, 6H,  $CH_3$ ), 109.0 (s, 6H,  $CH_3$ ), 110.0 (s, 6H,  $CH_3$ ), 111.0 (s, 6H,  $CH_3$ ), 112.0 (s, 6H,  $CH_3$ ), 113.0 (s, 6H,  $CH_3$ ), 114.0 (s, 6H,  $CH_3$ ), 115.0 (s, 6H,  $CH_3$ ), 116.0 (s, 6H,  $CH_3$ ), 117.0 (s, 6H,  $CH_3$ ), 118.0 (s, 6H,  $CH_3$ ), 119.0 (s, 6H,  $CH_3$ ), 120.0 (s, 6H,  $CH_3$ ), 121.0 (s, 6H,  $CH_3$ ), 122.0 (s, 6H,  $CH_3$ ), 123.0 (s, 6H,  $CH_3$ ), 124.0 (s, 6H,  $CH_3$ ), 125.0 (s, 6H,  $CH_3$ ), 126.0 (s, 6H,  $CH_3$ ), 127.0 (s, 6H,  $CH_3$ ), 128.0 (s, 6H,  $CH_3$ ), 129.0 (s, 6H,  $CH_3$ ), 130.0 (s, 6H,  $CH_3$ ), 131.0 (s, 6H,  $CH_3$ ), 132.0 (s, 6H,  $CH_3$ ), 133.0 (s, 6H,  $CH_3$ ), 134.0 (s, 6H,  $CH_3$ ), 135.0 (s, 6H,  $CH_3$ ), 136.0 (s, 6H,  $CH_3$ ), 137.0 (s, 6H,  $CH_3$ ), 138.0 (s, 6H,  $CH_3$ ), 139.0 (s, 6H,  $CH_3$ ), 140.0 (s, 6H,  $CH_3$ ), 141.0 (s, 6H,  $CH_3$ ), 142.0 (s, 6H,  $CH_3$ ), 143.0 (s, 6H,  $CH_3$ ), 144.0 (s, 6H,  $CH_3$ ), 145.0 (s, 6H,  $CH_3$ ), 146.0 (s, 6H,  $CH_3$ ), 147.0 (s, 6H,  $CH_3$ ), 148.0 (s, 6H,  $CH_3$ ), 149.0 (s, 6H,  $CH_3$ ), 150.0 (s, 6H,  $CH_3$ ), 151.0 (s, 6H,  $CH_3$ ), 152.0 (s, 6H,  $CH_3$ ), 153.0 (s, 6H,  $CH_3$ ), 154.0 (s, 6H,  $CH_3$ ), 155.0 (s, 6H,  $CH_3$ ), 156.0 (s, 6H,  $CH_3$ ), 157.0 (s, 6H,  $CH_3$ ), 158.0 (s, 6H,  $CH_3$ ), 159.0 (s, 6H,  $CH_3$ ), 160.0 (s, 6H,  $CH_3$ ), 161.0 (s, 6H,  $CH_3$ ), 162.0 (s, 6H,  $CH_3$ ), 163.0 (s, 6H,  $CH_3$ ), 164.0 (s, 6H,  $CH_3$ ), 165.0 (s, 6H,  $CH_3$ ), 166.0 (s, 6H,  $CH_3$ ), 167.0 (s, 6H,  $CH_3$ ), 168.0 (s, 6H,  $CH_3$ ), 169.0 (s, 6H,  $CH_3$ ), 170.0 (s, 6H,  $CH_3$ ), 171.0 (s, 6H,  $CH_3$ ), 172.0 (s, 6H,  $CH_3$ ), 173.0 (s, 6H,  $CH_3$ ), 174.0 (s, 6H,  $CH_3$ ), 175.0 (s, 6H,  $CH_3$ ), 176.0 (s, 6H,  $CH_3$ ), 177.0 (s, 6H,  $CH_3$ ), 178.0 (s, 6H,  $CH_3$ ),

17 ANSWER 18 OF 18 CAPAUS COPYRIGHT 2002 ACS (Continued)  
 U 85, 176-3.degree.; J. NNHCHNH2, U 60, 212-13.degree..  
 IT 11627-24-5, 100-manufacture(3,2-bisindole, 10-12-  
 (diethylamino)propyl)-, hydrochloride  
 (prop. of)  
 IN 11637-23-5 CAPAUS  
 CH 100-manufacture(3,2-bisindole, 10-[2-(diethylamino)propyl]-,  
 hydrochloride  
 (PCT) (CA INDEX NAME)



● HCl

=> fil reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	79.79	265.13
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-11.15	-11.15

FILE 'REGISTRY' ENTERED AT 14:47:42 ON 18 SEP 2002  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
 COPYRIGHT (C) 2002 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file  
 provided by InfoChem.

STRUCTURE FILE UPDATES: 17 SEP 2002 HIGHEST RN 452274-20-3  
 DICTIONARY FILE UPDATES: 17 SEP 2002 HIGHEST RN 452274-20-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP  
 PROPERTIES for more information. See STNote 27, Searching Properties  
 in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d his

(FILE 'HOME' ENTERED AT 14:39:49 ON 18 SEP 2002)

FILE 'REGISTRY' ENTERED AT 14:39:57 ON 18 SEP 2002

L1 STRUCTURE UPLOADED  
 L2 1027 S L1 FUL  
 L3 798 S L2 AND CAPLUS/LC  
 L4 STRUCTURE UPLOADED  
 L5 202 S L4 FUL SUB=L2  
 L6 164 S L5 AND CAPLUS/LC

FILE 'CAPLUS' ENTERED AT 14:46:16 ON 18 SEP 2002

L7 18 S L6 FUL

FILE 'REGISTRY' ENTERED AT 14:47:42 ON 18 SEP 2002

=> s l3 not l6

L8 634 L3 NOT L6

=> d 1-5

L13 ANSWER 1 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

CN(C)CC1=C2C(=O)C3=CC=CC=C3C=C2C=C1COc1ccc2c(c1)c3c(c2)c(=O)c4ccccc4n3CCN

11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR

RECORD. ALL CITATIONS AVAILABLE IN THE RE

	A new series of N-substituted hexa[5,6]cyclohepta[b]indole deriva.
I	(X-)- CHCl <sub>3</sub> . C(2)3S2; R = -(CH <sub>2</sub> )2NHMe, (CH <sub>2</sub> )3NHMe, (CH <sub>2</sub> )3NH(CO)Et; 2OH, etc.
	Synthesized and evaluated for in vitro cytotoxic activities against L1210
II	Murine leukemia and HT29 cell lines. I showed potent antitumor
	and blocked cell cycle progression of L1210 cells in G2 + M phase.
III	In vivo studies were performed with the most active compound, X-
	R= Me; MAC (Biological activity or effector, except adverse); RSU
(Biological	activity)
	unclassified); SPN (Synthetic preparation); B1OL (Biological
	study); PREP (Preparation).
IV	The results of the <i>in vitro</i> evaluation of N-substituted
	hexa[5,6]cyclohepta[b]indoles as antitumor agents
	CAPLOS
XI	N-hexa[5,6]cyclopenta[1,2-b]indole-6-[BN]-one,
IX	2-(diastereoisomer ethyl)-
	11-(2-dibutyl-1H-imidazol-5-yl)-
	1H-imidazole-5-carboxamide (CA INDEX NAME)

L13 ANSWER 2 OF 99 CAPIUS COPYRIGHT 2002 ACS (Continued)

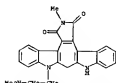
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31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR

RECORD. ALL CITATIONS AVAILABLE IN THE RE

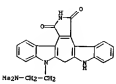
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L13 ANSWER 3 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCURACY NUMBER: 1599.623555 CAPLUS  
 DOCUMENT NUMBER: 132.1434  
 TITLE: Homocycloarilflavins: Synthesis of Ring-Expanded  
 Arylacrylflavin Analogues  
 AUTHOR(S): Rabinovich, Slavomir; Burgemeister, Thomas; Dove, Stefan  
 CORPORATE SOURCE: F&B, Salinas; Papp, Alfred  
 SOURCE: Faculty of Chemistry and Pharmacy, University  
 of Hamburg, Hamburg, D-20540, Germany  
 JOURNAL OF ORGANIC CHEMISTRY (1999), 64(22),  
 #130-#137  
 CODEN: JOCHDH ISSN: 0022-3263  
 FILLING: American Chemical Society  
 DOCUMENT TYPE: English  
 LANGUAGE: English  
 AB: The construction of the ring-expanded carbazole system, forming  
 arylacrylflavin homologues, is efficiently accomplished by the  
 reaction of 2,2'-bridged bis-indoles with  
 3,4-dibromo-2,5-dihydro-1H-2-pyridinone  
 derivative under Grignard conditions. A ring size of up to nine  
 members in the central ring is achievable. Substitutions either at the indole  
 or at the indole-N are also possible. The conformation of  
 homocycloarilflavins as a cross-line between the rigid arylacrylflavins  
 and the flexible arylacrylflavins was investigated by NMR, X-ray, and  
 semispecific quantum chem. calc. methods.  
 IT 249763-10-09  
 RI: F&B (Preparation); SPW (Synthetic preparation); P&P (Preparation)  
 [crystal structure]; synthesis of ring-expanded arylacrylflavin  
 analogs  
 RM 249763-11-9 CAPLUS  
 CN Pyrrolo[3',4':6,7]cyclohepta[2,1-b:4,5-b']diindole-1,3(2H,8H)-dione,  
 4-[2-(dimethylamino)ethyl]-9,10-dihydro-2-methyl- (ICI) (CA INDEX NAME)



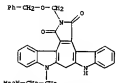
IT 249763-10-09-09 249763-10-09 249763-12-09  
 RI: SPW (Synthetic preparation); P&P (Preparation)

L13 ANSWER 3 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



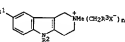
REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE  
 FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
 FORMAT

L13 ANSWER 3 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 ACCURACY NUMBER: 1599.623555 CAPLUS  
 DOCUMENT NUMBER: 132.1434  
 TITLE: Homocycloarilflavins: Synthesis of Ring-Expanded  
 Arylacrylflavin Analogues  
 AUTHOR(S): Rabinovich, Slavomir; Burgemeister, Thomas; Dove, Stefan  
 CORPORATE SOURCE: F&B, Salinas; Papp, Alfred  
 SOURCE: Faculty of Chemistry and Pharmacy, University  
 of Hamburg, Hamburg, D-20540, Germany  
 JOURNAL OF ORGANIC CHEMISTRY (1999), 64(22),  
 #130-#137  
 CODEN: JOCHDH ISSN: 0022-3263  
 FILLING: American Chemical Society  
 DOCUMENT TYPE: English  
 LANGUAGE: English  
 AB: The construction of the ring-expanded carbazole system, forming  
 arylacrylflavin homologues, is efficiently accomplished by the  
 reaction of 2,2'-bridged bis-indoles with  
 3,4-dibromo-2,5-dihydro-1H-2-pyridinone  
 derivative under Grignard conditions. A ring size of up to nine  
 members in the central ring is achievable. Substitutions either at the indole  
 or at the indole-N are also possible. The conformation of  
 homocycloarilflavins as a cross-line between the rigid arylacrylflavins  
 and the flexible arylacrylflavins was investigated by NMR, X-ray, and  
 semispecific quantum chem. calc. methods.  
 IT 249763-10-09  
 RI: F&B (Preparation); SPW (Synthetic preparation); P&P (Preparation)  
 [crystal structure]; synthesis of ring-expanded arylacrylflavin  
 analogs  
 RM 249763-11-9 CAPLUS  
 CN Pyrrolo[3',4':6,7]cyclohepta[2,1-b:4,5-b']diindole-1,3(2H,8H)-dione,  
 4-[2-(dimethylamino)ethyl]-9,10-dihydro-2-methyl- (ICI) (CA INDEX NAME)



RM 249763-12-09 CAPLUS  
 CN Pyrrolo[3',4':6,7]cyclohepta[2,1-b:4,5-b']diindole-1,3(2H,8H)-dione,  
 4-[2-(dimethylamino)ethyl]-9,10-dihydro-2-methyl- (ICI) (CA INDEX NAME)

L13 ANSWER 4 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCURACY NUMBER: 1597.168064 CAPLUS  
 DOCUMENT NUMBER: 127.144096  
 TITLE: Preparation of hydrogenated pyrido[4,3-b]indole  
 derivatives and pharmaceutical compositions and a  
 method for treating neurodegenerative disease  
 Saffari, Nikolai; Stefanovich, Afanasyev, Andrei  
 Zakharovich; Afanasyev, Svetlana Veselova  
 Sergey Olegovich; Thachenko, Sergei Evgenievich  
 Orlovskiy, Vladimir Yulievich; Zhuravskaya, Marina  
 Abramova  
 Isakura Saegyo K. K., Japan  
 Jpn. Kokai Tokkyo Koho, 166 pp.  
 JAPANESE ABSTRACT  
 PATENT ASSIGNMENT(S): Patent  
 SOURCE: Japanese  
 FAMILY ACT. NUN. COUNT: 1  
 PATENT INFORMATION  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 JP 0210682 A2 19970619 JP 1996-074909 19961017  
 RU 2140412 C1 19991027 RU 1995-117595 19951017  
 PRIORITY APPL. INFO.: RU 1995-117595 A 19951017  
 OTHER SOURCE(S): HANPAT 127:244096  
 RI



AB The title deriva. I [dotted line represents an optional] bonds R1 = H,  
 lower alkyl; R2 =  
 2-[2-(2-methyl-1H-3-methylindol-5-yl)-indol-3-yl]-  
 Me. (C1)=CH(R1)C(R2)N (I) = Me, halo, optional alkyl, alkenyl which may  
 be substituted with 1-3 lower alkyl, 1 aryl, CH2R4 at the  
 .beta.-position (R4  
 = H, alkyl, aralkyl, aryl), OR, alkylmethyl, arylmethyl, NMS66  
 [R5=6  
 = H, alkyl, cycloalkyl, aralkyl, aryl, 2-, 3-, or 4-pyridyl,  
 alkylmethyl, arylmethyl; one of R5 and R6 = CH(R7) (R7 = H, alkyl,  
 alkenyl, cycloalkyl, aralkyl, aryl, 2-, 3-, or 4-pyridyl) or R5=6  
 = CH2)N(CH2)2 (W = 0, CH2)q (q = 0-2), N(Cv)N (R8 = H, alkyl,  
 aryl; C1  
 = CH2, CH = 0-1) or NMS66 = N-phenylindol, ORS (R9 = H, alkyl,  
 aralkyl, aryl, OR, alkenyl, NMS66 except N-phenylindol, 2-, 3-, or  
 4-pyridyl), ORS, CH3 (X = Cl, F, Br), aryl, 2-, 3-, or 4-pyridyl; or  
 limit quaternary ammonium salt, triethylammonium, cyclohexylammonium,  
 N-methyl-, N-ethyl-, N-propyl-, N-butyl-, N-pentyl-, N-hexyl-, N-octyl-,  
 N-decyl-, N-dodecyl-, N-tetradecyl-, N-hexadecyl-, N-octadecyl-, N-  
 CH(R1)N (I' = any group given for Y) X = pharmaceut. acceptable acid

RN 195327-01-6 CAPLUS  
CN 5H-Pyrido[4,3-b]indole-5-ethanamine,  
1,2,3,4-tetrahydro-2,8-dimethyl-N,N-  
bis(phenylmethyl)-, dihydrochloride (SC1) (CA INDEX NAME)

some showing good antibacterial activity. The presence and position of substituents seems to be critical for such activity.

4624-81-1F 181704-74-5F 181704-76-7F  
181704-78-6F 181706-81-4F

RL: DAC (Biological activity or effector, except adverse); ZFN (Synthetic preparation); B3U (Biological study, unclassified); P3B (Properties); BCL (Biological study); PREP (Preparation)

Anticarcinogenic activity of 5,6-dihydrobenzo[1-c]carbazoles

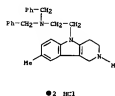
4624-81-1 - CMEP

1,10-Denzo[1-c]carbazole-11-ethanamine, 5,6-di-hydro-N,N-dimethyl-, monohydrochloride (SCI) [CA INDEX NAME]

● 1001

ZN 181704-74-5 CAPIUS  
 CN 11H-Benzo[a]carbazole-11-ethanamine,  
 5,6-dihydro-2-methoxy-N,N-dimethyl-,  
 monohydrochloride (SCI) (CA INDEX NAME)

L13 ANSWER 4 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



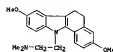
L13 ANSWER 5 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

● **EC1**

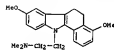
PN 181704-76-7 CAS/US  
 CN 11H-Benzo[a]carbazole-11-ethanamine, 5,6-dihydro-2,8-dimethoxy-N,N-dimethyl- (9CI) (CA INDEX NAME)



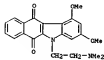
RN 181704-79-0 CAPLUS  
CN 11K-Benzo[e]carbazole-11-ethanamine, 5,6-dihydro-3,8-dimethoxy-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 181704-21-4 CAPLUS  
 CN 11m-Benz[a]carbazole-11-ethanamine, 5,6-dihydro-4,8-dimethoxy-N,N-dimethyl- (SCI) (CA INDEX NAME)

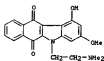


L13 ANSWER 6 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1596187565 CAPLUS  
 DOCUMENT NUMBER: 124189169  
 TITLE: Design of antineoplastic agents on the basis of "2-phenylisophthalate-type" structural pattern. 3. Synthesis and biological activity evaluation of 5H-benzo[b]naphtho[2,3-d]pyrrole-6,11-dione derivatives  
 AUTHOR(S): Luo, Yi-Lin; Chou, Ting-Chao; Chang, C. C.  
 CORPORATE SOURCE: Drug Development Laboratory, University Kansas  
 Medical Center, Kansas City, KS, 66160-7419, USA  
 SOURCE: Journal of Heterocyclic Chemistry (1996), 33(1), 113-17  
 CORDIS UNICOD: ISSN: 0022-152X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 124189169  
 AB AB No. of 5H-benzo[b]naphtho[2,3-d]pyrrole-6,11-dione deriva. were synthesized. Their biol. activity was compared with that of the corresponding benzocisole- and benzochlaphil- analogs.  
 IT 175866-97-9 CAPLUS  
 R10 SMC (Biological activity or effector, except adverse); RSU (Biological study, unclassified); RCT (Reaction); SPN (Synthetic preparation); RIGL (Biological study); PREP (Preparation); RACT (Reaction or reagent) (Synthesis and antineoplastic activity evaluation of 5H-benzo[b]naphtho[d]pyrrole-dione deriva.)  
 RN 175865-97-9 CAPLUS  
 CH 5H-benzo[b]naphtho[2,3-d]pyrrole-6,11-dione, 5-[2-(dimethylamino)ethyl]-1,3-dimethoxy- (PCI) (CA INDEX NAME)

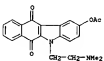


IT 175866-00-79 175866-00-79  
 R10 SMC (Biological activity or effector, except adverse); RSU (Biological study, unclassified); SPN (Synthetic preparation); RIGL (Biological study); PREP (Preparation) (Synthesis and antineoplastic activity evaluation of 5H-benzo[b]naphtho[d]pyrrole-dione deriva.)  
 RN 175865-00-7 CAPLUS  
 CH 5H-benzo[b]naphtho[2,3-d]pyrrole-6,11-dione, 5-[2-(dimethylamino)ethyl]-1-hydroxy-3-

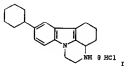
L13 ANSWER 4 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 methoxy- (PCI) (CA INDEX NAME)



RN 175866-00-8 CAPLUS  
 CH 5H-benzo[b]naphtho[2,3-d]pyrrole-6,11-dione, 2-(acetyloxy)-5-[2-(dimethylamino)ethyl]- (PCI) (CA INDEX NAME)

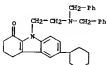


L13 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1351761647 CAPLUS  
 DOCUMENT NUMBER: 123169663  
 TITLE: Method for producing 8-cyclohexyl-3,3,4,4,5,6-hexahydro-1H-pyrido[3,2,1-a]pyrazino[1,8-bc]-[9,10-b]naphtho[1,8-bc]-[1,2-b]pyrazolo[5,4-d]pyrimidin-10(9H)-one  
 INVENTOR(S): Vasiliu I.  
 PRESENT ASSIGNER(S): Vasopapayanni; Neuchon-Imedocor S.A.; Glushkov, Robert G.; Anyusius, Vera M.; Myrskova, Valentina G.; Shvedov, Igor V.; Shvedov, Vasiliu I.  
 SOURCE: CORDIS UNICOD: R10 S.M. From Izobestinya 1993, (27), 117-18.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Russian  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 SU 1200569 A3 19930723 SU 1997-4341818 19971118  
 OTHER SOURCE(S): CASREACT 123169663  
 IT



AB Title hydrochloride salt I is prepd. in 2 steps, with improved yield, and by a simpler, safer, and more economical process. The 1st step involves N-alkylation of dihydrobenzofuran II (R = H) with 1-(2-(2-phenyl)pyrazolo[5,4-d]pyrimidin-10(9H)-one) (CH2CH2CH2CH2CH2CH2)2.HCl. In a 2-phenyl system comprising an aryl, hydrocarbon and a 30-40% aq. soln. of base at 25-110 deg. in the presence of a phase-transfer catalyst, [various quaternary ammonium halides, or Ph4CCl/Et3CN, or DMF, or FBS]. In the 2nd step, the isolated title intermediate II (R = CH2CH2CH2CH2CH2CH2)2 is hydrogenated and cyclized, using as catalyst either Pd(OAc)2 or Pd(OAc)2 supported on C, at 50-70 deg. and 1-20 atm. In the first step, use of toluene as a solvent is specifically claimed, as is use of

L13 ANSWER 7 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 FmocCl/Et3CN as the catalyst.  
 IT 124887-79-19  
 R10 DMF (Industrial manufacture); RCT (Reaction); SPN (Synthetic preparation); PREP (Preparation); RACT (Reaction or reagent) (Intermediate prep. of cyclohexylhexahydroprazino[1,8-bc]naphtho[1,8-bc]-[1,2-b]pyrazolo[5,4-d]pyrimidin-10(9H)-one)  
 RN 124897-71-1 CAPLUS  
 CH 1N-Carbonyl-1-one, 9-[2-[bis(phenylethyl)amino]ethyl]-6-cyclohexyl-2,3,4,9-tetrahydro- (PCI) (CA INDEX NAME)



L13 ANSWER 8 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1991422947 CAPLUS  
 DOCUMENT NUMBER: 12212047  
 TITLE: Design, synthesis and antitumor activity of trisubstituted 5,6-dihydrobenzo[*a*]carbazoles  
 AUTHOR(S): Sepali, A.; Pappa, M.; Casanovi, R.; Martin, G.; Beppini, R.; Rizzardo, H. T.  
 CORPORATE SOURCE: Dep. Toxicologic Pharmacology, Univ. Buenos Aires, Buenos Aires, 1113, Argent.  
 SOURCE: European Journal of Medicinal Chemistry (1996), 30(2), 163-5  
 CODEN: EJMCAS; ISSN: 0223-5234  
 PUBLISHER: Elsevier  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB: The design, synthesis, binding affinities for rabbit uterus estrogen receptors and in vivo action of two trisubstituted 5,6-dihydrobenzo[*a*]carbazoles are reported. Relative binding affinities were similar to tamoxifen. In vivo studies in rats bearing NMU-induced mammary tumors indicates that tamoxifen (200 .mg s.c. daily led to 51.68 tumor regression, ovariectomy to 54.48, and 2,8-dihydroxy-N-(2-morpholino)ethyl-5,6-dihydrobenzo[*a*]carbazole (I) and 2,8-dihydroxy-N-(2-dimethylamino)ethyl-5,6-dihydrobenzo[*a*]carbazole (II) (200 .mg s.c. daily to 50.5 and 54.48, resp. These experiments demonstrated that I and II are as effective as tamoxifen in the model studied.  
 IT 163277-7-29  
 RI: INC (Biological activity or effector, except adverse); BSU (Toxicological study, unclassified); SFN (Synthetic preparation); THS (Therapeutic use);  
 RIOL (Biological study); FRP (Preparation); USES (Uses) (design, synthesis and antitumor activity of trisubstituted 5,6-dihydrobenzo[*a*]carbazoles)  
 NM 163277-7-2 CAPLUS  
 CN 11-[2-(dimethylamino)ethyl]-6,11-dihydro-1H-benz[*a*]carbazole  
 (ICI) (CA INDEX NAME)



IT 163277-86-09  
 RI: RCT (Reagent); SFN (Synthetic preparation); FRP (Preparation); RACT

L13 ANSWER 5 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1991422947 CAPLUS  
 DOCUMENT NUMBER: 12142294  
 TITLE: Lithiation routes to oxindoles and 2-indolinethiones  
 AUTHOR(S): Bessault, J.; Gordon, W.; Desoy, William A. Sch. Med., Univ. Auckland, Auckland, 92019, N. Z.  
 CORPORATE SOURCE: Metacoreplex (1994), 37(2), 793-8  
 SOURCE: CHEMAB 1838; 0385-5414  
 CODEN: JOURJL  
 DOCUMENT TYPE: English  
 LANGUAGE: English  
 OTHER SOURCE(S): CHEMAB 12142294  
 GI



AB N-Substituted oxindoles, e.g. 1, and 2-indolinethiones can be prep.  
 BY lithiation of carbonyl protected N,2-dimethylamino lines followed by quenching with CO<sub>2</sub> or CCl<sub>4</sub> resp. 2-Indolinethione derive. are also available via demethylation of 2-methylthionoxindoles, which are prep.  
 BY lithiation of N-substituted indoles and treatment with di-Me disulfide.  
 IT 164997-16-19  
 RI: SFN (Synthetic preparation); FRP (Preparation) (prepn. of)  
 NM 164997-16-19 CAPLUS  
 CN 1,2-Di-thio[3,4-b]indole-3(2H)-thione, 8-[2-(dimethylamino)ethyl]- (ICI) (CA INDEX NAME)

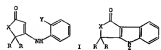


L13 ANSWER 8 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 (Reagent or reagent)  
 (design, synthesis and antitumor activity of trisubstituted 5,6-dihydrobenzo[*a*]carbazoles)  
 NM 163277-85-0 CAPLUS  
 CN 11-[2-(dimethylamino)ethyl]-5,6-dihydrobenzo[*a*]carbazole, 5,6-dihydro-2,8-dimethoxy-N-dimethyl-, monohydrochloride (ICI) (CA INDEX NAME)



● ICI

L13 ANSWER 10 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1992151464 CAPLUS  
 DOCUMENT NUMBER: 116151464  
 TITLE: Syntheses and reactions of 2,3-dimethyl-1H,3H-furo[4,3-*b*]indol-1-one and 3,3-dimethyl-1H,3H-pyrrolo[4,3-*b*]indol-1-one  
 AUTHOR(S): Satsum, Minoru Ogura, Masaru  
 CORPORATE SOURCE: Fac. Pharm. Sci., Fuku Univ., Osaka, 577, Japan  
 SOURCE: Chem. Express (1992), 7(2), 145-8  
 CODEN: CHEXDH; ISSN: 0911-5566  
 DOCUMENT TYPE: English  
 LANGUAGE: English  
 OTHER SOURCE(S): CHEMAB 116151464  
 GI

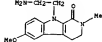


AB Treatment of 4,4-dimethyl-5-(2-(dimethylamino)-2-buten-4-olide-1 (X = O, R = H, Y = 1) with sodium hydride in the presence of Cu(I) is INGA gave 3,3-dimethyl-1H,3H-furo[4,3-b]indol-1-one II (X = O, R = H, Z = H) in good yield. Its pyrrole deriv. II' (X = NH, Z = H) was also synthesized by the same procedure. Alkylations of the both compds. by MeI and gave 27-534 I: (X = O, NH, Me, R = H, Z = H, CHEMAB 116151464).  
 IT 139927-29-4  
 RI: RCT (Reagent) (oxidation by of benzoylchlorides)  
 NM 139927-29-4 CAPLUS  
 CN Pyrrolo[4,3-b]indol-1(2H)-one, 4-[2-(dimethylamino)ethyl]-3,4-dihydro-3,3-dimethyl- (ICI) (CA INDEX NAME)



IT 139927-29-09

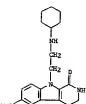




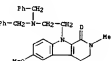
IN 129280-65-5 CAPLUS  
CN 16-Pyrrodo[3,4-b]indol-1-one, 9-(2-aminoethyl)-6-cyclohexyl-2,3,4,9-tetrahydro- (PCI) (CA INDEX NAME)



IN 129280-69-9 CAPLUS  
CN 16-Pyrrodo[3,4-b]indol-1-one, 9-(2-(cyclohexylamino)ethyl)-2,3,4,9-tetrahydro-6-methoxy- (PCI) (CA INDEX NAME)



IN 129280-71-3 CAPLUS  
CN 16-Pyrrodo[3,4-b]indol-1-one, 6-cyclohexyl-9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro- (PCI) (CA INDEX NAME)



IN 129300-85-2 CAPLUS  
CN 16-Pyrrodo[3,4-b]indol-1-one, 9-[2-[bis(phenylethyl)amino]ethyl]-6-cyclohexyl-2,3,4,9-tetrahydro- (PCI) (CA INDEX NAME)



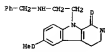
IT 129300-88-9P  
RI: PCP (Reactant); SPN (Synthetic preparation); PSEP (Preparation) (prepn. and hydrolysis of)  
IN 129300-89-0 CAPLUS  
CN 16-Pyrrodo[3,4-b]indol-1-one, 9-[2-[bis(phenylethyl)amino]ethyl]-2,3,4,9-tetrahydro-6-methoxy- (PCI) (CA INDEX NAME)



IT 129280-73-8P 129280-74-8P 129280-75-7P  
129280-76-8P 129280-87-4P 129280-88-5P  
RI: SPN (Synthetic preparation); PSEP (Preparation) (prepn. of)  
IN 129280-75-5 CAPLUS  
CN 16-Pyrrodo[3,4-b]indol-1-one, 9-[2-[bis(phenylethyl)amino]ethyl]-2,3,4,9-tetrahydro-6-methoxy- hydrochloride (PCI) (CA INDEX NAME)



IN 129300-86-3 CAPLUS  
CN 16-Pyrrodo[3,4-b]indol-1-one, 2,3,4,9-tetrahydro-6-methoxy-9-[2-(phenylethyl)amino]ethyl- (PCI) (CA INDEX NAME)



IT 129280-69-9P  
RI: SPN (Synthetic preparation); PSEP (Preparation) (prepn. and cyclization or condensation with cyclohexanone of)  
IN 129280-63-3 CAPLUS  
CN 16-Pyrrodo[3,4-b]indol-1-one, 9-(2-aminoethyl)-2,3,4,9-tetrahydro-6-methoxy- (PCI) (CA INDEX NAME)



IT 129300-84-1P 129300-85-2P  
RI: ACT (Reactant); SPN (Synthetic preparation); PSEP (Preparation) (prepn. and hydrolysis of)  
IN 129300-84-1 CAPLUS  
CN 16-Pyrrodo[3,4-b]indol-1-one, 9-[2-[bis(phenylethyl)amino]ethyl]-2,3,4,9-tetrahydro-6-methoxy-2-methyl- (PCI) (CA INDEX NAME)



● x HCl

IN 129280-74-6 CAPLUS  
CN 16-Pyrrodo[3,4-b]indol-1-one, 9-(2-aminoethyl)-2,3,4,9-tetrahydro-6-methoxy- hydrochloride (PCI) (CA INDEX NAME)



● x HCl

IN 129280-75-7 CAPLUS  
CN 16-Pyrrodo[3,4-b]indol-1-one, 9-(2-aminoethyl)-2,3,4,9-tetrahydro-6-methoxy-2-methyl- hydrochloride (PCI) (CA INDEX NAME)

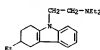


● x HCl

IN 129280-76-8 CAPLUS  
CN 16-Pyrrodo[3,4-b]indol-1-one, 2,3,4,9-tetrahydro-6-methoxy-9-[2-(phenylethyl)amino]ethyl-, hydrochloride (PCI) (CA INDEX NAME)

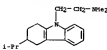






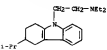
● HCl

RN 106583-35-1 CAPLUS  
CN 9H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-N,N-dimethyl-3-(1-methyl-1H-imidazol-2-yl)-, monohydrochloride (PCI) (CA INDEX NAME)



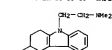
● HCl

RN 106583-37-3 CAPLUS  
CN 9H-Carbazole-9-ethanamine, N,N-methyl-1,2,3,4-tetrahydro-3-(1-methyl-1H-imidazol-2-yl)-, monohydrochloride (PCI) (CA INDEX NAME)



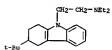
● HCl

RN 106583-39-5 CAPLUS  
CN 9H-Carbazole-9-ethanamine, 3-(1,1-dimethyl-1H-imidazol-2-yl)-1,2,3,4-tetrahydro-N,N-dimethyl-, monohydrochloride (PCI) (CA INDEX NAME)



● HCl

RN 106583-41-9 CAPLUS  
CN 9H-Carbazole-9-ethanamine, 3-(1,1-dimethyl-1H-imidazol-2-yl)-1,2,3,4-tetrahydro-N,N-dimethyl-, monohydrochloride (PCI) (CA INDEX NAME)



● HCl

RN 106583-43-1 CAPLUS  
CN 9H-Carbazole-9-ethanamine, 3-(1,1-dimethyl-1H-imidazol-2-yl)-1,2,3,4-tetrahydro-N,N-dimethyl-, monohydrochloride (PCI) (CA INDEX NAME)



● HCl

RN 106583-45-3 CAPLUS  
CN 9H-Carbazole-9-ethanamine, 3-(1,1-dimethyl-1H-imidazol-2-yl)-1,2,3,4-tetrahydro-N,N-dimethyl-, monohydrochloride (PCI) (CA INDEX NAME)



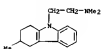
● HCl

RN 106583-47-5 CAPLUS  
CN 9H-Carbazole-9-ethanamine, 6-(1,1-dimethyl-1H-imidazol-2-yl)-1,2,3,4-tetrahydro-N,N-dimethyl-, monohydrochloride (PCI) (CA INDEX NAME)

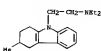


● HCl

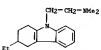
RN 106583-50-0 CAPLUS  
CN 9H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-N,N,3-trimethyl-, (PCI) (CA INDEX NAME)



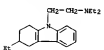
RN 106583-52-2 CAPLUS  
CN 9H-Carbazole-9-ethanamine, N,N-diethyl-1,2,3,4-tetrahydro-3-methyl-, (PCI) (CA INDEX NAME)



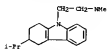
RN 106583-53-3 CAPLUS  
CN 9H-Carbazole-9-ethanamine, 3-ethyl-1,2,3,4-tetrahydro-N,N-dimethyl-, monohydrochloride (PCI) (CA INDEX NAME)



RN 106583-54-4 CAPLUS  
CN 9H-Carbazole-9-ethanamine, N,N,3-trimethyl-1,2,3,4-tetrahydro-, (PCI) (CA INDEX NAME)



RN 106583-56-6 CAPLUS  
CN 9H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-N,N-dimethyl-3-(1-methyl-1H-imidazol-2-yl)-, (PCI) (CA INDEX NAME)



RN 106583-58-8 CAPLUS  
CN 9H-Carbazole-9-ethanamine, N,N-diethyl-1,2,3,4-tetrahydro-3-(1-methyl-1H-imidazol-2-yl)-, (PCI) (CA INDEX NAME)



RM 106583-60-2 CAPLUS  
CN 3H-Carbazole-9-ethanamine,  
3-(1,1-dimethylethyl)-1,2,3,4-tetrahydro-N,N-  
dimethyl- (PCI) (CA INDEX NAME)



RM 106583-63-5 CAPLUS  
CN 3H-Carbazole-9-ethanamine,  
3-(1,1-dimethylpropyl)-1,2,3,4-tetrahydro-N,N-  
dimethyl- (PCI) (CA INDEX NAME)



RM 106583-65-7 CAPLUS  
CN 3H-Carbazole-9-ethanamine, 6-(1,1-dimethylethyl)-N,N-dimethyl-1,2,3,4-  
tetrahydro- (PCI) (CA INDEX NAME)



RM 106608-93-5 CAPLUS  
CN 3H-Carbazole-9-ethanamine,  
3-(1,1-dimethylpropyl)-1,2,3,4-tetrahydro-N,N-  
dimethyl- (PCI) (CA INDEX NAME)



ACCESSION NUMBER: 106-108657  
DOCUMENT NUMBER: 106-108657  
TITLE: Photochemical reactions. 145. Regio-controlled  
hydrogen-deuterium exchange of biologically  
important  
isotopes under UV irradiation  
AUTHOR(S): Saito, Isao; Nurematsu, Shisuru; Sugiyama,  
Hiroyuki  
Yamamoto, Akihito; Matsura, Teruo  
CORPORATE SOURCE: Fac. Eng., Kyoto Univ., Kyoto, 606, Japan  
SOURCE: Tetrahedron Lett. (1985), 26(44), 5493-4  
CODEN: TETLDT ISSN: 0040-4039  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 105;108657  
AB Photolysis, hydrogen-deuterium exchange reaction of biol. important  
isotopes  
is reported. The regioselectivity of the photodeuteration was  
controlled  
by the ammonium group of the side chain. Thus, photochem.  
deuteration of  
tryptamine-HCl with  $\text{H}_2\text{O}-\text{D}_2\text{O}$  resulted in a highly regioselective  
incorporation of D into the 6-position.  
IT 105236-51-3  
RU HCl (Reactant)  
photochem. hydrogen-deuterium exchange reaction of,  
regioselective  
RM 105236-51-3 CAPLUS  
CN 3H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-, monohydrochloride  
(PCI) (CA INDEX NAME)



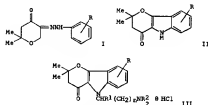
● HCl

IT 105236-54-6P  
RU 3H (Synthetic preparation); 3HPE (Preparation)  
(Prep. of)  
RM 105236-54-6 CAPLUS  
CN 3H-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-, monohydrochloride  
(PCI) (CA INDEX NAME)



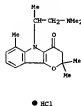
● HCl

113 ANSWER 17 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 104194-14958 CAPLUS  
 DOCUMENT NUMBER: 104194-14958  
 TITLE: Synthesis of N-[(disubstituted)alkyl] derivatives of 2,3-dihydro-4-methyl-2,6(7 or 8)-trimethylpyrrolo[3,2-b]indoles  
 AUTHOR(S): Norevyan, A. S.; Inst. Tokol' Org. Khim., Yerevan, USSR  
 SOURCE: Arm. Khim. Zh. (1988), 36(12), 747-51  
 CODEN: AYKHAH; ISSN: 0515-9428  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 OTHER SOURCE(S): CASREACT 105:114938  
 GI:



AB Phenylhydrazones I (R = O-, m-, p-Me), prepd. in 70-85% yields from 2,2-dimethyl-4-methylpyrrolo[3,2-b]indole-4-one by hydromethylation with CH3MgBr, followed by treatment with RCHNHNH2Cl<sup>-</sup>, were cyclized by a.o. HCl to give 33-43% pyrazolindoles II which were N-alkylated by disubstitutedalkyl chlorides to give III (R1 = H, Me, R2 = Me, Et, n = 1, 2).  
 17 104194-41-49 104194-42-59 104194-43-59 104194-44-59 104194-45-59 104194-46-59 104194-47-59 104194-48-59 104194-49-59 104194-50-59 104194-51-59  
 RU SYN (Synthetic preparations); PREP (Preparation) (prepn. of)  
 RU 104194-41-4 CAPLUS  
 CN Pyrrolo[3,2-b]indol-4(SB)-one, 5-[2-(dimethylamino)ethyl]-2,3-dihydro-2,2,6-trimethyl-, monohydrochloride (SCI) (CA INDEX NAME)

113 ANSWER 17 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



● HCl  
 RU 104194-45-8 CAPLUS  
 CN Pyrrolo[3,2-b]indol-4(SB)-one, 5-[2-(dimethylamino)ethyl]-2,3-dihydro-2,2,7-trimethyl-, monohydrochloride (SCI) (CA INDEX NAME)



● HCl  
 RU 104194-46-9 CAPLUS  
 CN Pyrrolo[3,2-b]indol-4(SB)-one, 5-[2-(dimethylamino)ethyl]-2,3-dihydro-2,2,7-trimethyl-, monohydrochloride (SCI) (CA INDEX NAME)



● HCl  
 RU 104194-47-0 CAPLUS

113 ANSWER 17 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



● HCl  
 RU 104194-42-5 CAPLUS  
 CN Pyrrolo[3,2-b]indol-4(SB)-one, 5-[2-(dimethylamino)ethyl]-2,3-dihydro-2,2,6-trimethyl-, monohydrochloride (SCI) (CA INDEX NAME)



● HCl  
 RU 104194-43-6 CAPLUS  
 CN Pyrrolo[3,2-b]indol-4(SB)-one, 5-[2-(dimethylamino)-1-methylthyl]-2,3-dihydro-2,2,6-trimethyl-, monohydrochloride (SCI) (CA INDEX NAME)

113 ANSWER 17 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

CN Pyrrolo[3,2-b]indol-4(SB)-one, 5-[2-(dimethylamino)-1-methylthyl]-2,3-dihydro-2,2,7-trimethyl-, monohydrochloride (SCI) (CA INDEX NAME)



● HCl  
 RU 104194-45-2 CAPLUS  
 CN Pyrrolo[3,2-b]indol-4(SB)-one, 5-[2-(dimethylamino)ethyl]-2,3-dihydro-2,2,8-trimethyl-, monohydrochloride (SCI) (CA INDEX NAME)



● HCl  
 RU 104194-50-5 CAPLUS  
 CN Pyrrolo[3,2-b]indol-4(SB)-one, 5-[2-(dimethylamino)ethyl]-2,3-dihydro-2,2,6-trimethyl-, monohydrochloride (SCI) (CA INDEX NAME)



● HCl

L13 ANSWER 17 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

RN 104194-61-6 CAPLUS  
CN Pyrazo[3,2-b]indol-4(3H)-one,  
5-[2-(dimethylamino)-1-methylvinyl]-2,3-  
dihydro-2,2,8-trimethyl-, monohydrochloride (9CI) (CA INDEX NAME)



● 9CI

L13 ANSWER 18 OF 99 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1985:620713 CAPLUS  
DOCUMENT NUMBER: 103120713  
TITLE: Optimal particle size at low ignition limit of  
AGULOV, V. I.; YESHIN, V. Ye.  
CORPORATE SOURCE: Vses. Nauchno-Issled. Khim.-Farm. Inst., Kuznets,  
USSR  
SOURCE: Khim.-Farm. Zh. (1985), 19(8), 1001-3  
CODEN: KHEFAN; ISSN: 0023-1134  
DOCUMENT TYPE: Journal  
LANGUAGE: Russian  
AB: Dimensional anal. was used to det. the crit. diam. (d) of solid  
particles for a given lower comm. ignition limit (LCIL) as a  
function of  
416 thermal cond., RID, self-ignition temp., and effective light  
emission  
temp. The optimum d for 38 compds. at the LCIL was 50-200 μm. The  
dependence of d on m.p. can be calcd. by taking into account the  
adhesion  
of particles to the app. walls.  
IT 897-44-9 868-66-9  
RII 898 (Properties)  
in (crit. particle size of, in aerosols, lower comm. ignition limit  
relaxation (d))  
RN 897-44-9 CAPLUS  
CN 10-Pyridic[3,4-b]indol-1-one,  
5-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-  
6-methoxy- (7CI, 9CI, 9CI) (CA INDEX NAME)



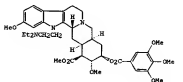
RN 566-66-9 CAPLUS  
CN 10-Pyridic[3,4-b]indol-1-one,  
5-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-  
6-methoxy-, monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 19 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

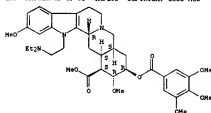


● 9CI

L13 ANSWER 19 OF 99 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1985:120175 CAPLUS  
DOCUMENT NUMBER: 101120175  
TITLE: Interaction of diethylenetriamineoxepine with cells  
of  
transplantable tumor in vivo  
LABARET, S.  
CORPORATE SOURCE: Montreal Gen. Hosp., Montreal, PQ, H3G 1A4, Can.  
SOURCE: Br. J. Cancer (1984), 50(5), 847-51  
CODEN: BJOCAL; ISSN: 0007-0920  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
IT



AB In mice with transplanted RBT fibrosarcoma, RI-152  
(diethylaminooxepine) (I) (24-36 mg) (250 mg/kg, i.p.) was  
cytotoxic toward the tumor cells; a hypoxic period (15 min) after the  
surgery of the animal enhanced I cytotoxicity. I levels in the  
tumor  
cells persisted for up to 24 h, which correlated with the persistence  
of I  
induced cytotoxicity for 24 h. Interaction of I treatment with  
radiation  
treatment indicated that I decreased the proportion of hypoxic cells  
in  
the tumor. Thus, the most effective protocol for combined treatment  
would  
be schedule radiotherapy after I treatment when the hypoxic fraction is  
minimal.  
IT 89-1475  
RII RAC (biological activity of effector, except adverse); THS  
(therapeutic use); R001 (clinical study); YES (yes)  
(neoplasia inhibition by, in hypoxia, radiotherapy in relation to)  
RN 53-11-9 CAPLUS  
CN Tohimebenzoic acid;  
1-[2-(diethylamino)ethyl]-1,17-dimethoxy-18-  
[(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester,  
(3.alpha.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (9CI) (CA INDEX  
NAME)  
Absolute stereochemistry.



L13 ANSWER 20 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1981199 CAPLUS  
 DOCUMENT NUMBER: 101119  
 TITLE: Antileishmanic action of drugs and synthetic compounds  
 under epinast trophozoites of *Leishmania histolytica*  
 AUTHOR(S): Seneo and polymeric culture conditions and in the infected rat cells  
 Frenkel, B. M. Krishna; Baner, Indu Das, Pradeep; Srivastava, Neeta  
 COORDINATE SOURCE: Div. Microbiol., Cent. Drug Res. Inst., Lucknow, 011-3891  
 214  
 SOURCE: Curr. Sci. (1994), 59(11), 778-81  
 CORDIS: CUSOAM ISSN: 0011-3891  
 JOURNAL: Journal  
 LANGUAGE: English  
 AB The cooperative antileishmanic effects of several known antileishmanals (amebae (43-18-1), dehydroemetine (4914-20-2), metronidazole (493-44-1), Vioform (139-26-7), Emetone (84-12-1), furazolidone (67-45-6), and sulfaquinoxaline (57-67-0)) as well as 30 other compounds (levamisole, propylamine, pyrimethamine, ethyl-, n-butyl-, and isopropylamine, pyrimethamine, and other heterocyclics) against *L. histolytica* in aseptic or polymeric culture were examined. Differences in the antileishmanic potency observed in vitro were not apparent in therapeutic evaluation tests in rats infected with *L. histolytica* trophozoites, and only animals given metronidazole were totally cured. Thus, the in vitro test procedure fails to be an accurate index of therapeutic antileishmanic efficacy.  
 IT 41734-46-C  
 NLS: SAC (Biological activity or effector, except adverse); BIOL (Biological study)  
 CH (antileishmanic activity of)  
 NH 41734-46-0 CAPLUS  
 CH Cyclopropylmethyl-5-(6R)-methanone, N,N-diethyl-7,8,9,10-tetrahydro-2-methoxy-1,4-dioxane (111) (PCI) (CA INDEX NAME)  
 CH 1  
 CHN 48198-06-7  
 CHF C20 H20 N2 O  
 CH<sub>2</sub>-CH<sub>2</sub>-NH<sub>2</sub>



CH 2  
 CHN 144-62-7  
 CHF C2 H2 O4



L13 ANSWER 21 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1984450226 CAPLUS  
 DOCUMENT NUMBER: 1011226  
 TITLE: Studies on fused indoles. II. Structural modifications and analgesic activity of 4-aminoethyltetrahydrothiopyran(2,3-b)indoles  
 AUTHOR(S): Takashi; Nakamura, Yasuo; Jyomura, Hirokuni; Kakekayama, Hisao  
 COORDINATE SOURCE: Azenuma, Fujio; Hirose, Katsumi; Shionogi Res. Lab., Shionogi & Co., Ltd., Osaka, 535, Japan  
 SOURCE: Chem. Pharm. Bull. (1994), 32(3), 877-16  
 CORDIS: CPTAL ISSN: 0358-2663  
 JOURNAL: Journal  
 LANGUAGE: English  
 GI



AB A series of 4-aminoethyl-2,3,4,9-tetrahydrothiopyran(2,3-b)indole derivative.  
 (I: R1 = H, halo, alkyl; R2 = H, Bu, cypyl, alkyl; R3 = H, Bu, alkyl; R4 = H, Me, Bu; R3R4 = -(CH2)5-, -(CH2)2N(CH2)2-) was synthesized and evaluated for analgesic activity. Preliminary structure-activity relationship analysis showed that substitution on the benzene portion of the indole ring reduced the analgesic activity, whereas a short-chain N0-alkyl substituent enhanced the potency, as exemplified by (I: R1 = R2 = R4 = H; R3 = Me) (11) (73425-57-7). It was equivalent to morphine in the AcOE writing assay with mice.  
 IT T3482-09-AP 304761-17-AP  
 NLS: SAC (Biological activity or effector, except adverse); SYN (Synthetic preparation); THN (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 CH (analgesic and analgesic activity of, structure in relation to)  
 NH T3482-09-4 CAPLUS  
 CH Thiopyran(2,3-b)indole-9-[2N]-methanone, 3,4-dihydro-2-methoxy-4-[(methylethylamino)methyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

HN 90471-17-3 CAPLUS  
CN Thiopyrano[2,3-b]indole-9(2H)-ethanamine, 3,4-di-hydro-N,N-dimethyl-4-  
[methylamino)methyl]- (9CI) (CA INDEX NAME)



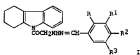
113 ANSWER 22 OF 99 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1994167728 CAPLUS  
DOCUMENT NUMBER: 105167728  
TITLE: Effect of lokenan and its derivatives on cyclic AMP  
AUTHOR(S): phosphaesterase activity  
CORPORATE SOURCE: Tachikawa, O. E.; Kishimoto, R. E.  
SOURCE: Nauchno-Issled. Inst. Biol. Ispyt. Khim. Sedin.,  
USSR Khim.-Farm. Zh. (1984), 18(2), 152-3  
DOCUMENT TYPE: COORD. HYPMAN 1989: 0023-1134  
JOURNAL  
LANGUAGE: Russian  
OI



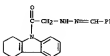
AB Lokenan [I: R1 = Me, R2 = Hd] [53734-79-5] and I of its 3 deriva.  
tested. II [5488-30-6], showed 50% inhibition of rat brain  
cAMP phosphodiesterase [9036-21-9] at 5.0 times, 10-4 M. A similar  
effect was obsd. with a 5.0 times, 10-4 M concn. of the I: R1 = H,  
R2 = Me [54186-43-1] and with a 12.5 times, 10-4 M concn. of the CMB66  
salt  
[I: R1 = H, R2 = Et] [5703-39-9]. CMB may thus be involved in the  
mechanism of the antidepressant action of lokenan and its analogs.  
Structure-activity relations are briefly discussed.  
IT 54186-30-6  
Hs. NCI (Biological study)  
CNMP phosphodiesterase inhibition by)  
HN 54186-30-6 CAPLUS  
CN 1R-1R[2,3,4-b]indol-1-one,  
3-[2-(dimethylamino)methyl]-2,3,4,4,9-tetrahydro-  
(9CI) (CA INDEX NAME)



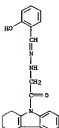
113 ANSWER 23 OF 99 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 199416249 CAPLUS  
DOCUMENT NUMBER: 10516249  
TITLE: 1,2,3,4-Tetrahydrocarbazoles as possible  
oxidase inhibitors  
AUTHOR(S): Soti, Mani Lal; Saxena, A. K.; Barthwal, J. P.;  
Shrivastava, K. P.  
CORPORATE SOURCE: Dep. Pharmacol. Ther., King George's Med. Coll.,  
Lucknow, 226 003, India  
SOURCE: Indian J. Pharm. Sci. (1987), 45(2), 74-6  
CODON: 1981M; ISSN: 0250-474X  
JOURNAL  
DOCUMENT TYPE: English  
OTHER SOURCE(S): CASREACT 10016249  
OI



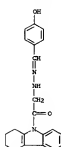
AB Reaction of the appropriate benzaldehyde with  
9-(di-hydroxymethyl)-1,2,3,4-  
tetrahydrocarbazole gave I [R, R1, R2, R3 = H, H, H, H, H, OH, H, H, H,  
H, H, OH, H, OH, H, Cl, H, H, H, H, Cl, H, OH, Cl, H, Cl, H, H, H,  
H, H, OH, OH, OH, H, OH, OH, H (I); NO2, H, H, H, H, H, NO2, H,  
H, OH, H, OH], which inhibited MAO activity. II gave 84.0%  
inhibition as  
compared with 70.0% for pargyline.  
IT 88014-28-3P 88014-30-8P 88014-31-7P  
88014-32-9P 88014-33-8P 88014-34-0P  
88014-35-1P 88014-36-2P 88014-37-3P  
88014-38-4P 88014-39-5P 88014-40-6P  
88014-41-8P  
Hs. SYN (Synthetic preparation); PREP (Preparation)  
HN (Prep. and monamine oxidase inhibitory activity of)  
CN 88014-28-3 CAPLUS  
CN 1R-Carbazole,  
2,3,4,9-tetrahydro-9-[[[phenylmethyl]amino]hydrazino]acetyl]-  
(9CI) (CA INDEX NAME)



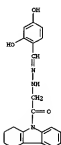
HN 88014-30-6 CAPLUS  
CN 1R-Carbazole,  
2,3,4,9-tetrahydro-9-[[[4-(2-hydroxyphenyl)methyl]amino]hydrazino  
[acetyl]- (9CI) (CA INDEX NAME)



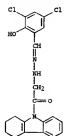
HN 88014-31-7 CAPLUS  
CN 1R-Carbazole,  
2,3,4,9-tetrahydro-9-[[[4-(2-hydroxyphenyl)methyl]amino]hydrazino  
[acetyl]- (9CI) (CA INDEX NAME)



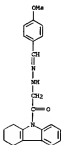
RN 88014-32-8 CAPLUS  
CN 1H-Carbazole, 9-[[[(2,4-dihydroxyphenyl)methyl]amino]hydrazino]acetyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



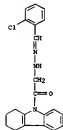
RN 88014-33-9 CAPLUS  
CN 1H-Carbazole, 9-[[[(2-chlorophenyl)methyl]amino]hydrazino]acetyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



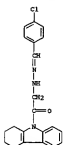
RN 88014-36-2 CAPLUS  
CN 1H-Carbazole, 9-[[[(4-methoxyphenyl)methyl]amino]hydrazino]acetyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



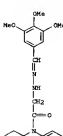
RN 88014-37-3 CAPLUS  
CN 1H-Carbazole, 9-[[[(2,4,5-trimethoxyphenyl)methyl]amino]hydrazino]acetyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



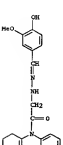
RN 88014-34-0 CAPLUS  
CN 1H-Carbazole, 9-[[[(4-chlorophenyl)methyl]amino]hydrazino]acetyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



RN 88014-35-1 CAPLUS  
CN 1H-Carbazole, 9-[[[(2,3,4,9-tetrahydro-2H-pyridin-2-yl)methyl]amino]hydrazino]acetyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



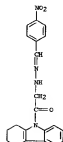
RN 88014-38-4 CAPLUS  
CN 1H-Carbazole, 9-[[[(4-methoxyphenyl)methyl]amino]hydrazino]acetyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



RN 88014-39-5 CAPLUS  
CN 1H-Carbazole, 9-[[[(2,4,5-trimethoxyphenyl)methyl]amino]hydrazino]acetyl]-2,3,4,9-tetrahydro- (9CI) (CA INDEX NAME)



RN 88014-40-8 CAPLUS  
CN 18-Carboxylic,  
2,3,4,9-tetrahydro-9-[[[4-nitrophenyl)methylene]hydrazino]acetyl]- (PCI) (CA INDEX NAME)



RN 88014-41-9 CAPLUS  
CN 18-Carboxylic  
2,3,4,9-tetrahydro-9-[[[3-methylphenyl)methylene]hydrazino]acetyl]- (PCI) (CA INDEX NAME)



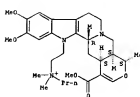
IT 88014-42-0P  
R1: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(graph, and reaction with benzaldehyde)  
RN 88014-42-0 CAPLUS  
CN 18-Carboxylic, 9-(hydrazinoacetyl)-2,3,4,9-tetrahydro- (PCI) (CA INDEX NAME)



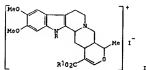
L13 ANSWER 24 OF 99 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 99154047 CAPLUS  
DOCUMENT NUMBER: 99154047  
TITLE: Benzopyrrolone quaternary ammonium salt derivatives  
PATENT ASSIGNEE(S): Nishida Flour Milling Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.  
CODEN: JKKOAM  
LANGUAGE: Patent  
FAMILY ACC. NOM. COUNT: 1  
PATENT INFORMATION: Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 5801981	A2	19830129	JP 1981-118417	19810720
JP 02017514	B4	19990420		

OTHER SOURCE(S): CASREACT 99154047  
DI



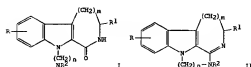
● 1 -



AB Title derivs. 1 (R, R1 = H, Me2Piv(CH2CH2), Me2Piv(CH2CH2), Me) were  
prepd.  
by treating the corresponding bases with Pr1. Effects of 1 against  
adrenaline-caused arrhythmia were shown in guinea pigs in comparison  
with  
procainamide; the ED50 were 10-11.1 mg/kg i.v. in mice. Thus,  
5 g 2-(dimethylamino)ethyl reserpinate with 10 mL Pr1 in Me2CO 17  
room temp. gave 51.44 1 (R = H, R1 = Me2Piv(CH2CH2)).  
IT 88014-77-9P  
R1: RAC (Biological activity or effector, except adverse); SPN  
(Synthetic  
preparation); THZ (Therapeutic use); BICL (Biological study); PREP  
(Preparation); WSES (New)  
(graph, and enticatorythac activity of)  
RN 88014-77-9 CAPLUS  
CN 8-methoxyphen-1-ethanamine, 16,17-dihydro-10,11-dimethoxy-16-  
(methoxyphenyl)-N,N,19-triaethyl-9-propyl-, iodide,  
(3.beta.,13.alpha.,20.alpha.)- (SCI) (CA INDEX NAME)

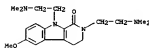
Absolute stereochemistry.

113 ANSWER 25 OF 99 CASIUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1993:0393 CASIUS  
 DOCUMENT NUMBER: 96:13931  
 TITLE: Synthesis and pharmacological activity of pyrazolo-beta-carboline  
 Glushkov, R. G.; Filenko, M. I.; Mankovskii, M.  
 AUTHOR(S):  
 G.:  
 CORPORATE SOURCE:  
 Andreeva, N. I.; Sosinov, V. M.  
 Vses. Nauchno-Issled. Khim.-Farm. Inst., Moscow,  
 USSR  
 SOURCE:  
 Khim.-Farm. Zh. (1982), 16(8), 1054-8  
 CODEN: KHFZAH ISSN: 0023-1134  
 DOCUMENT TYPE:  
 Journal  
 LANGUAGE:  
 Russian  
 GI



AB The synthesis of 1 (n, n, R, R2 = 1, 2, 6-MeO, H, Me, 1, 2, 7-MeO, H, Me, 1, 2, H, Me, 1, 3, H, Me, Me, 2, 2, H, Me, Me, 2, 3, M, H, Me), 14, and 5 related compds. were sketched, but no expl. details were given.

IT The compds. had psychotropic activity.  
 84298-39-9 84298-41-9  
 Re SFN (Synthetic preparation); FRED (Preparation)  
 (Prep., psychotropic activity) of  
 84298-39-5 CASIUS  
 CN 1N-Pyrido[3,4-b]indol-1-one, 2,3-bis[2-(diethylamino)ethyl]-2,3,4,5-tetrahydro-6-methoxy (SC1) (CA INDEX NAME)



84298-41-9 CASIUS  
 CN 3E-Pyrido[3,4-b]indole-9-ethanamine, 1,2,3,4-tetrahydro-6-M,3-trimethyl- (SC1) (CA INDEX NAME)

113 ANSWER 25 OF 99 CASIUS COPYRIGHT 2002 ACS (Continued)



113 ANSWER 25 OF 99 CASIUS COPYRIGHT 2002 ACS (Continued)



IT 847-44-89 54188-27-19 54188-34-79  
 84298-29-39  
 Re SFN (Synthetic preparation); FRED (Preparation)  
 (Prep., psychotropic activity, and reaction of)  
 847-44-89 CASIUS  
 CN 1N-Pyrido[3,4-b]indol-1-one, 3-[2-(diethylamino)ethyl]-2,3,4,5-tetrahydro-6-methoxy (TC1, TC1, SC1) (CA INDEX NAME)



84188-27-1 CASIUS  
 CN Acetoph[3,4-b]indol-1(2H)-one, 10-[2-(diethylamino)ethyl]-3,4,5,10-tetrahydro- (SC1) (CA INDEX NAME)

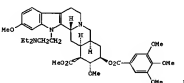


84188-34-0 CASIUS  
 CN 1N-Pyrido[3,4-b]indol-1-one, 3-[2-(diethylamino)ethyl]-2,3,4,5-tetrahydro-7-methoxy (SC1) (CA INDEX NAME)



84298-29-3 CASIUS  
 CN 1N-Pyrido[3,4-b]indol-1-one, 3-[2-(diethylamino)ethyl]-2,3,4,5-tetrahydro-

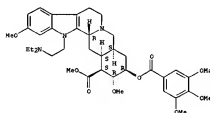
113 ANSWER 26 OF 99 CASIUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1992:04920 CASIUS  
 DOCUMENT NUMBER: 97:16525  
 TITLE: Toxicity of diethylaminoreverapine to a transplatable tumor: the significance of the presence of hypoxic cells  
 AUTHOR(S): Labrecq, Shirley  
 CORPORATE SOURCE: Dep. Radiat. Oncol., McGill Univ., Montreal, Pq., Canada  
 SOURCE: J. Natl. Cancer Inst. (1992), 84(1), 3028-32  
 CODEN: JNCIAR ISSN: 0090-5472  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



AB The survival of clonogenic cells from 2 transplatable mouse tumors was measured following i.p. injection of DE-152 (diethylaminoreverapine) [1] (R-18-18) to the tumor-bearing mouse. Radn. of surviving fraction was seen for both tumors following injection of the drug; minimal dose of surviving cells being seen from 24 to 48 h after injection. Greater cell kill was obsd. for the EMT fibrosarcoma than for the EMT6 mammary carcinoma. Radn. in surviving fraction of the EMT tumor was already obsd. at 1 h after injection of the drug, and survival at that time was reduced if tumor cells were acutely hypoxic prior to ascision of the tumor. Results also indicated that chronically hypoxic radioresistant cells were more sensitive to the drug than were aerated cells. Significant radn. in surviving fraction was seen for doses of DE-152 as low as 5 mg/kg. Using EMT tumors growing as lung nodules, the toxicity of DE-152 was not

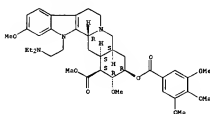
113 ANSWER 24 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 apparent until 11-14 days after initiation of the tumor and that subsequent sensitivity of cells to DL-152 increased with increasing size of the lung tumor. Hypocic cells were detectable in 10-day-old lung tumors.  
 a size at which the tumors were still resistant to the toxic effects of DL-152. In vitro expt. using XMT cells in suspension showed that a hsh  
 concn. of DL-152 was toxic to both hypoxic and aerated cells but that hypoxic cells were more sensitive to lower concns. than were aerated cells.  
 IT 52-15-2  
 R1: FND (Properties)  
 (cytotoxicity of, hypoxic cells in relation to)  
 HN 52-15-9 CAPLUS  
 CN Yohimban-16-carboxylic acid,  
 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-  
 [(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester,  
 (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (PCI) (CA INDEX  
 NMR)

Absolute stereochemistry.



113 ANSWER 27 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 [(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester,  
 (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (PCI) (CA INDEX  
 NMR)

Absolute stereochemistry.

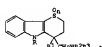


113 ANSWER 27 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 1992:213561 CAPLUS  
 96:213561  
 TITLE: Toxicity of diethylaminopropylamine to tumor cells:  
 effect of drug alone and in combination with  
 radiation  
 AUTHOR(S):  
 CORPATE SOURCE:  
 Can. J. Radiat. Oncol., Biol. Phys. (1992),  
 3(3-4),  
 555-9  
 CODEN: IROBDD; ISSN: 0360-3016  
 DOCUMENT TYPE:  
 LANGUAGE:  
 AB DL-152 (diethylaminopropylamine) is toxic to cells of 2 transplantable  
 mouse  
 tumors. Minimal nos. of surviving tumor cells are seen at 24 and 48 h  
 following administration of the drug to the tumor-bearing mouse. The  
 fraction of cells surviving at this time (for doses as low as 5 mg/kg)  
 indicates that both hypoxic and aerated cells are killed. For short  
 (1 h)  
 exposures in vivo, however, both acutely and chronically hypoxic  
 cells are  
 more sensitive to DL-152 than are their aerated counterparts. For XMT  
 cells growing as lung nodules, DL-152 toxicity is not demonstrable  
 until  
 11-14 days after initiation of the lung tumor, coinciding with the  
 time at  
 which a hypoxic fraction develops in this model. In vitro expts.  
 using  
 XMT cells in suspension showed certain concns. of DL-152 to be  
 selectively  
 toxic to hypoxic cells. At higher concns. both hypoxic and aerated  
 cells  
 were killed by the drug. The combined effect of DL-152 and irradiation  
 has  
 been investigated using, as an index of response, the time required  
 for a  
 transplantable tumor to regress to a given vol. after treatment.  
 DL-152  
 was equally effective in prolonging the period of radiation-induced  
 growth  
 delay when it was given either shortly before or shortly after irradiation.  
 Growth delay attributable to drug plus irradiation was greater than would  
 be  
 predicted if the effects of the 2 modalities were additive.  
 Evidently,  
 DL-152 has a concn.-dependent specific toxicity for hypoxic cells and the  
 drug may require a hypoxic milieu to manifest toxicity.  
 IT 52-15-2  
 R1: FND (Properties)  
 (toxicity of, to neoplasms, radiation effect on)  
 HN 52-15-9 CAPLUS  
 CN Yohimban-16-carboxylic acid,  
 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-  
 [(3,4,5-trimethoxybenzoyl)oxy]-, methyl ester,  
 (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (PCI) (CA INDEX  
 NMR)

113 ANSWER 28 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 1992:199858 CAPLUS  
 96:199858  
 TITLE: Tetrahydrothiopyran[3,2-b]indole derivatives and  
 pharmaceutical composition containing these  
 compounds  
 INVENTOR(S):  
 PATENT ASSIGNEE(S):  
 SOURCE:  
 CODEN: EPACOW  
 LANGUAGE:  
 FAMILY ACC. NO. COUNT:  
 PATENT INFORMATION:  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 EP 33259 A1 19941009 EP 1901-10145 19810227  
 EP 33259 B1 19840228  
 JP 8412006 B JP 1980-23751 19800227  
 JP 83084675 B 19881216  
 CA 118221 A1 19831206 CA 1981-06802 19810119  
 US 498560 A1 19811201 US 1981-098568 19810130  
 DE 4100814 A 19810828 DE 1981-454 19810223  
 DE 150305 B 19870202  
 DE 150305 C 19871123  
 AU 8167934 A 19810903 AU 1981-67934 19810227  
 AU 531183 A 19840602  
 US 502854 A1 19821216 US 1981-062954 19810611  
 US 4910318 A 19900310 US 1984-033646 19840726  
 JP 1980-23761 JP 1980-23761 19800227  
 US 1981-527003 19810122  
 US 1992-499107 19820818

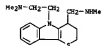
PRIORITY APPEN. INFO.1

91



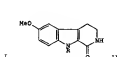
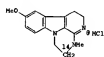
AB Thiopyranindole 1 (R = H, alkyl, alkoxy, allyl, aralkyl, aryl,  
 amidealkyl; R1, R2 = H, alkyl; R3 = H, alkyl, amidealkyl; R4R5 =  
 heterocyclyl; a = 0-2) were prepared. Thus, treating 1-ethylindole with  
 thiourea and then hydrolysis gave 1-ethyl-3-indolethiol which was  
 treated  
 with ClC1=CC=CC=C1 and cyclized with pyridine to give  
 4-(ethyl-3-methyl-2,3,4,5-tetrahydrothiopyran[3,2-b]indol-1-yl)  
 Reductive  
 elimination of the last comp. gave 1-MC1 (R = H, R1 = R3 = H; a  
 = 0).

L13 ANSWER 26 OF 99 CAPIUS COPYRIGHT 2002 ACS (Continued)  
 which had an antitumor activity ED<sub>50</sub> of 9.4 mg/kg orally in rate in the  
 carcinogen adenoma test and an analgesic ED<sub>50</sub> of 6.4 mg/kg orally in  
 mice  
 in the HDAC writing test.  
 IT 8018-31-7P  
 RI 5PM (Synthetic preparation) PREP (Preparation)  
 prep. of  
 8018-31-7 CAPIUS  
 CM Thioamino(3,2-bis[1-(4-(2-ethoxyamino, 2,6-dihydro-8,8-dimethyl-4-  
 (methoxyamino)methyl)-, dihydrochloride (HCl) (CA INDEX NAME)



● 2 HCl

L13 ANSWER 29 OF 99 CAPIUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1962,2067 CAPIUS  
 DOCUMENT NUMBER: 9612067  
 TITLE: Synthesis of isokan-14C  
 AUTHOR(S): Adkess, P. J.; Vashina, L. I.; Kogan, M. A.;  
 Zavaritskaya, M. Ya.  
 SOURCE: Khim.-Farm. Zh. (1961), 15(10), 70-3  
 DOCUMENT TYPE: CORDS PROFILE ISSN: 0023-1134  
 LANGUAGE: Russian  
 GI



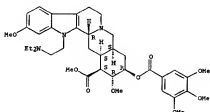
AB The title compd. I was prepd. in 8 steps from NaM-14C by treatment  
 with  
 CH<sub>2</sub>O and HCl to give H4C6H<sub>2</sub>O<sub>2</sub>, followed by red., methylation,  
 chlorination, treatment with 11 O = Me to give II (O =  
 CH4C6H<sub>2</sub>O<sub>2</sub>),  
 cyclization by POC13 to give a dichlorophosphate salt, and  
 saponify.  
 IT 80308-62-2P  
 RI 5PM (Synthetic preparation) PREP (Preparation)  
 (red., and cyclization by phosphoryl chloride)  
 RM 80309-62-2 CAPIUS  
 CM 15-Pyrido(3,4-b)indol-1-one, 9-[2-(dimethylamino)ethyl-2-14C]-2,3,4,9-  
 tetrahydro-6-methoxy- (HCl) (CA INDEX NAME)

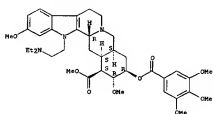


L13 ANSWER 30 OF 99 CAPIUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1981040150 CAPIUS  
 DOCUMENT NUMBER: 95181922  
 TITLE: Radioprotection of normal and malignant tissue  
 in the  
 mouse by diethylaminomorphine  
 AUTHOR(S): Lehouet, Shireen Fieher; Gillman; Mathot, Gilles  
 COORDINATE SOURCE: Dep. Radiat. Biol., McGill Univ., Montreal, P.Q.  
 SOURCE: Int. J. Radiat. Biol. Reist. Stud. Phys., Chem.  
 Med.  
 (1981), 40(1), 63-73  
 CORDS: 122843 ISSN: 0020-7616  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Dose-modifying factors for protection by diethylaminomorphine (I) (  
 23-18-8) preirradiated. Injection ranged from 1.0 for bone marrow  
 colony-forming units to >1.8 for skin in mice, and were 1.0 and 1.7  
 for  
 the DMT6 adenocarcinoma and KHT fibrosarcoma, resp. Acutely hypoxic  
 KHT  
 tumors were protected to a slightly lesser extent than were aerated  
 tumors. For the KHT tumor, the no. of clonogenic cells recovered  
 from  
 nonirradiated tumors 1 h after I injection was reduced to 60% of the  
 no.  
 from saline-treated controls, whereas if I-injected mice were acutely  
 hypoxic at the time of sacrifice, the no. of clonogenic cells was  
 further  
 reduced. The survival of nonirradiated DMT6 tumor cells was  
 unaffected by  
 I injection prior to sacrifice.  
 IT 83-18-8  
 RI 21C (Biological study)  
 (radioprotection of animal cell and tumor by)  
 RM 83-18-9 CAPIUS  
 CM Yohimben-16-carboxylic acid,  
 1-[2-(dimethylamino)ethyl]-11,17-dimethoxy-18-  
 [(2,4,5-trimethoxybenzoyl)oxy]-, methyl ester,  
 (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (HCl) (CA INDEX  
 NAME)

Absolute stereochemistry.

L13 ANSWER 30 OF 99 CAPIUS COPYRIGHT 2002 ACS (Continued)

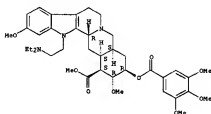




L13 ANSWER 32 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



Absolute stereochemistry.



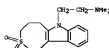
ACCESSION NUMBER: 19791403217 CAPLUS  
DOCUMENT NUMBER: 9143217  
TITLE: 9,9-Dimethyl-1,2,4,5,6,7-hexahydrothioindole-4-benzimidazole-7-propanamine 3,3'-dioxide and related thioindoles  
INVENTOR(S): Ciesielski, Wieslaw A.; Morrison, Glenn C.  
PATENT ASSIGNOR(S): Warner-Lambert Co., USA  
SOURCE: U.S., 4 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:  
PATENT NO. -----  
KIND DATE APPLICATION NO. DATE  
US 4146349 A 19790313 US 1977-803649 19771223

GI



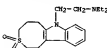
AB The thioindoles I (R = H, Cl, 6-alkyl, Cl-6-alkoxy, halogens; R1 = Cl-6 aminoethyl; X = S, SO) their pharmaceutically acceptable addn. salts were prepd. Thus, 1-thiacyclooctan-5-one 1,1-dioxide was treated with Pyridine

in HAc to give R01 I (R = R1 = H, X = SO) which was treated with MeNH(CH2)3Cl to give 601 I (R = Me, X = SO) which was treated with MeNH(CH2)3Cl to give 601 I (R = Me, X = SO) (II) et 40 mg/90 I had antidepressant activity similar to Imipramine.  
IT 70381-10-9 70381-10-9 70381-10-9  
R1: SO (Psychiatric preparation) PDB (Preparation)  
R01 70381-10-9 CAPLUS  
CN Thioindole(5,4-benzimidazole-7(2H)-ethanamine, 1,4,5,6-tetrahydro-9,9-dimethyl-3,3'-dioxide (SCI) (CA INDEX NAME)



R01 70381-10-9 CAPLUS

CN Thioindole(5,4-benzimidazole-7(2H)-ethanamine, 9,9-dimethyl-1,4,5,6-tetrahydro-3,3'-dioxide (SCI) (CA INDEX NAME)

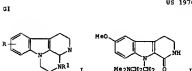


R01 70381-12-4 CAPLUS  
CN Thioindole(5,4-benzimidazole-7(2H)-ethanamine, 1,4,5,6-tetrahydro-9,9-dimethyl-3,3'-dioxide (SCI) (CA INDEX NAME)



ACCESSION NUMBER: 1979123113 CAPLUS  
DOCUMENT NUMBER: 90123113  
TITLE: and Pyrimino[1,2,3-ab]-beta-carboline derivatives  
INVENTOR(S): Jaita  
Liberman, S. S.; Gershtikov, L. M.; Volkova, V.  
A.: Zaitseva, A. V.; Nagidson, O. Yu.  
PATENT ASSIGNOR(S): USSR  
SOURCE: U.S., 4 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:  
PATENT NO. -----  
KIND DATE APPLICATION NO. DATE  
US 408647 A 19780509 US 1976-746688 19760302  
PRIORITY APPR. INFO: US 1977-455641 19770314  
US 1976-655620 19760204

GI



AB Pyrimino[1,2,3-ab]-beta-carboline derivatives I (R = H, Me, lower alkyl; R1 = lower alkyl) were prepd. Thus, I (R = H, Me, R1 = Me) was obtained by cyclizing II with POCl3 and neutralizing the resulting chlorophosphate with NaOH. I

(R = 6-Me, R1 = Me) had antidepressant activity (no data).  
IT 67820-39-1  
R1: Me (Reagent)  
(cyclization of)  
R01 67820-39-1 CAPLUS  
CN 1H-Pyrido[2,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-1,2,3,4-tetrahydro-6-methoxy-, hydrochloride (Tci, SCI) (CA INDEX NAME)



● HCl

IT 54188-32-1P 54188-32-0P 54188-32-0P  
 RI: ACT (Reactant); SYN (Synthetic preparation); PREP (Preparation)  
 (prepn. and cyclization of)  
 RN 54188-27-1 CAPLUS  
 CN Asepino[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro- (HCl) (CA INDEX NAME)



RN 54188-32-0 CAPLUS  
 CN Asepino[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro- (HCl) (CA INDEX NAME)



RN 54188-33-0 CAPLUS  
 CN 1H-Pyridol[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-, monohydrochloride (HCl) (CA INDEX NAME)



RN 54188-34-0 CAPLUS  
 CN 1H-Pyridol[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-7-methoxy- (HCl) (CA INDEX NAME)



RN 54188-35-1 CAPLUS  
 CN 1H-Pyridol[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-7-methoxy-, monohydrochloride (HCl) (CA INDEX NAME)



● HCl



● HCl

IT 54188-35-2P 54188-35-0P 54188-35-0P  
 RI: SYN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)  
 RN 54188-28-2 CAPLUS  
 CN Asepino[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro-, monohydrochloride (HCl) (CA INDEX NAME)



● HCl

RN 54188-35-3 CAPLUS  
 CN Asepino[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro-, monohydrochloride (HCl) (CA INDEX NAME)



● HCl

RN 54188-35-6 CAPLUS  
 CN Asepino[3,4-b]indol-1(2H)-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-

113 ANSWER 38 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1976:010559 CAPLUS  
 DOCUMENT NUMBER: 89:210359  
 TITLE: Octahydro[1]benzopyrro[3,4-b]indoles  
 AUTHOR: Mart  
 CORPORATE SOURCE: Pharma Res. Canada Ltd., Pointe Claire, Que., Can.  
 SOURCE: J. Pharm. Med. (1978), (8), 1387-84  
 COUNTRY: JACS; ISSN: 0075-4617  
 JOURNAL: Journal  
 LANGUAGE: German  
 DOCUMENT TYPE: G1



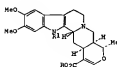
AB: Benzopyrroindoles 1 (R1 = H, Me; R2 = H, CH2CHMe2, R3 = Me, Pr, Ph; R4 = CH2COEt, Ph, Me; R3R4 = CH2CHMe2CH2COEt, CH2CHMe2CH2COEt) were prepd. in 38-94% yields by E23-catalyzed cyclodehydration of indolylcyclohexanols 11 (alpha- and beta.-OH) with R3COH. 11 were prepd. by cycloalkylation of indole with 2-hydroxycyclohexanones and HCO4 and of the product with NaBH4. Free acids, N,N-dimethylamides, and amide salts, products were prepd. from the above 1.  
 IT 89222-17-3P  
 RI: SYN (Synthetic preparation); PREP (Preparation)  
 (prepn. of)  
 RN 68222-17-3 CAPLUS  
 CN [1]Benzopyrro[3,4-b]indole-7(1H)-ethanamine, N,N-dimethyl-2,3,4,4a,6,11c-hexahydro-6,6-dimethyl-, monohydrochloride (HCl) (CA INDEX NAME)



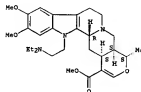
● HCl

L13 ANSWER 39 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1978:105604 CAPLUS  
 DOCUMENT NUMBER: 81:105604  
 TITLE: Reserpine derivatives  
 INVENTOR(S): Fushimine, Hideo; Tomatsu, Yasuhisa  
 PATENT ASSIGNOR(S): Nishin Flour Milling Co., Ltd., Japan  
 SOURCE: Japan, Kokai, 1 pp.  
 CODE(S): JKKOAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JF 52093759	A2	19770806	JF 1976-10168	19760202



AB Tea reserpine deriva. I (R = H, alkyl, dialkylaminoalkyl; R1 = alkyl, morpholinomethyl, dimethylaminoalkyl) were prepd. and their antiarrhythmic activity tested. Thus, 4.12 g reserpine in Me2SO contg. MeOH was treated with HCl at room temp. to give 1.5 g N-methylreserpine. The effective and lds of I (R = H, R1 = H, Me, Et) were tabulated.  
 IT 6646-68  
 RI: SYN (Synthetic preparation); PREP (Preparation)  
 OR: (prep. of)  
 RN 6644-66-4 CAPLUS  
 CN Oxyacetic acid, 16-carboxylic acid, 16,17-dihydro-1,2-(diethylaminoethyl)-10,11-dimethoxy-19-methyl-, methyl ester, monohydrochloride, (1beta,17-alpha,20-alpha)- (HCl) (CA INDEX NAME)  
 Absolute stereochemistry.



● HCl

L13 ANSWER 41 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1978:1160 CAPLUS  
 DOCUMENT NUMBER: 81:1160  
 TITLE: 1,2-N-Alkylation of rutecarpine and synthesis of novel related heterocyclic ring systems  
 INVENTOR(S): indole[1',2':3,4]pyrrolo[1,2-a]quinazoline and indole[1',2':3,4]indole[1,2-a]quinazoline  
 CORPORATE SOURCE: Gaskell, Bruno; Palatnam, G. (Gaskell)  
 SOURCE: Jpn. Chem. Rev., Univ. Milano, Milan, Italy  
 J. Heterocycl. Chem. (1977), 14(3), 439-44  
 CODE(S): JHSCAD  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 RI: For diagram(s), see printed CA issue.  
 AB The failure to obtain the alkylrutecarpines I (R = Et, Bu, isobutyl) by heating rutecarpine (I, R = H) with neat alkyl halides at 120.degree. compared with the facile reaction with MeI. In contrast, use of alkyl halides-DMF as a mixture gave I (R = alkyl) in good yield. Using 1,3-diodopropane and 1,2-dibromoethane gave II (R = 2, 3), deriva. of indole[1',2':3,4]pyrrolo[1,2-a]quinazoline and indole[1',2':3,4]indole[1,2-a]quinazoline.  
 IT 6487-11-28  
 RI: SYN (Synthetic preparation); PREP (Preparation)  
 OR: (prep. of)  
 RN 6487-11-2 CAPLUS  
 CN indole[2',3':4,5]pyrrolo[2,1-b]quinazolin-5(7H)-one, 13-[2-(diethylamino)ethyl]-8,13-dihydro-, monohydrochloride (HCl) (CA INDEX NAME)



● HCl

113 ANSWER 41 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1977:601806 CAPLUS  
 DOCUMENT NUMBER: 87120106  
 TITLE: Pharmaceutical method for using pyrano- and thiopterindimide derivatives  
 INVENTOR(S): Andre A. Jilkovsky, Ivo Dobos, Thomas A. Ayers, McKenna and Harrison Ltd., Can. U.S., 4 pp. Division of U.S. 4,065,913.  
 GEMERCO, Christopher A.; Humber, Leslie G.; Maselli.  
 PATENT ASSIGNOR(S): Andre A. Jilkovsky, Ivo Dobos, Thomas A. Ayers, McKenna and Harrison Ltd., Can. U.S., 4 pp. Division of U.S. 4,065,913.  
 SOURCE: COBRI (USDOM)  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACQ. NUM. COUNT: 11  
 PATENT INFORMATION: 11

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4541169	A	19780609	US 1976-73624	19761028
US 3852205	A	19741203	US 1972-21627	19720113
ZA 7258775	A	19740731	ZA 1972-1875	19721215
AF 7250439	AI	19740627	AF 1972-10429	19721222
US 3860853	A	19750629	US 1973-37937	19730705
US 4003913	A	19770118	US 1975-55506	19760305
US 4056638	A	19771101	US 1976-73334	19761018
US 4056537	A	19771101	US 1976-732829	19761018
US 4118734	A	19781063	US 1977-22456	19780109
PRIORITY AFFIN. INFO.:			US 1972-21627	19720113
			US 1973-37937	19730705
			US 1975-55506	19760305
			US 1976-73076	19760319
			US 1976-73384	19761018

01



AB Antidepressant and antiulcer (no data) tetrahydropyranindoles, such as:  
 (I) R1 = Me, R2 = H, X = O, n = 2, 3; R = Me, R1 = R2 = H, X = O, n = 3;  
 R = Pr, R1 = Me, R2 = H, X = O, n = 2; R = Me, R1 = H, R2 = Pr, X = O, n = 2;  
 2; R = R1 = Me, R2 = Et, X = S, n = 2) were prepd. Thus, tryptophol condensed with AcCHCO2Et, II (R3 = CO2Et) hydrolyzed, I (R3 = CO2H) antacid, and I (R3 = CO2Me) reduced with LiAlH4 to give I (R3 = CH2OH).  
 IT 64733-46  
 RI: FOT (Baccant); SPN (Synthetic preparation); PREP (Preparation) (group, and redn. of)

113 ANSWER 41 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 monohydrochloride (SCI) (CA INDEX NAME)



● HCI

IN 64733-65-3 CAPLUS  
 IN 64733-66-4 CAPLUS  
 CN Pyrano[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1-trimethyl-1-propyl-, (2S)-2-butenedioate (1:1) (SCI) (CA INDEX NAME)

CN 1  
 CN 22931-24-9  
 CNP C19 R23 R2 O



CN 2

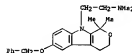
CN 110-16-7  
 CNP C4 H4 O4

Double bond geometry as shown.



IN 64733-67-5 CAPLUS  
 IN 64733-68-6 CAPLUS  
 CN Pyrano[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1-trimethyl-1-phenylmethyl-, monohydrochloride (SCI) (CA INDEX NAME)

113 ANSWER 41 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 IN 64733-68-6 CAPLUS  
 CN Pyrano[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1,1-tetramethyl-6-phenylmethyl-, monohydrochloride (SCI) (CA INDEX NAME)



● HCI

IT 42821-30-SP 42821-32-SP 57791-10-SP  
 64733-69-SP 64733-66-SP 64733-67-SP  
 RI: SPN (Synthetic preparation); PREP (Preparation) (group, and redn. of)  
 IN 42821-30-5 CAPLUS  
 CN Pyrano[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1,1-tetramethyl-, (SCI) (CA INDEX NAME)



IN 42821-32-9 CAPLUS  
 CN Pyrano[3,4-b]indole-6-ol, 3-[2-(dimethylamino)ethyl]-1,3,4,5-tetrahydro-1,1-dimethyl-, (SCI) (CA INDEX NAME)



IN 57791-12-5 CAPLUS  
 CN Pyrano[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1,1-tetramethyl-,

113 ANSWER 41 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



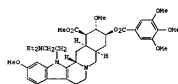
● HCI

IN 64733-69-7 CAPLUS  
 CN Pyrano[3,4-b]indole-6-ol, 3-[2-(dimethylamino)ethyl]-1,3,4,5-tetrahydro-1,1-dimethyl-, monohydrochloride (SCI) (CA INDEX NAME)



● HCI

113 ANSWER 42 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 197744137 CAPLUS  
 DOCUMENT NUMBER: 8746137  
 TITLE: Effect of reserpine and its derivatives on release of biogenic amines. Competitive study on the activity of reserpine and diethylaminoethyl-1-reserpine as bi-levitate.  
 AUTHOR(S): Choleit, R.  
 CORPORATE SOURCE: Dep. Pharmacol., Firms Lab. Lefrancq, Romelaville, Fr.  
 SOURCE: Ann. Pharm. (Paris), 1977, 27(5), 1004-5  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 GI

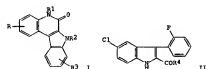


AB Histamine hiterate [1-(diethylaminoethyl)reserpine hiterate] (I) (1111-64-0) by injection was .storeg.200-fold less potent than reserpine in causing depletion of catecholamines in the central nervous system of rats and in causing ptosis palpabrales in mice, an indicator of catecholamine release.  
 IT 1111-64-0  
 RI B102 (Biological study) (catecholamine release by brain hypothalamus in response to)  
 RI 1111-64-0 CAPLUS  
 CH Toluene-16-carboxylic acid, 1-[2-(diethylaminoethyl)-11,17-dimethoxy-16-[[1,4,5-trimethylbenzoyl]oxy]-methyl ester, [3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)-, (2R,3R)-2,3-dihydroxybutanediolate (1:1) (SCI) (CA INDEX NAME)  
 CH 1  
 CSM 87-69-4  
 CIP C4 H6 O6  
 Absolute stereochemistry.

Absolute stereochemistry.

113 ANSWER 43 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 197743945 CAPLUS  
 DOCUMENT NUMBER: 8739450  
 TITLE: Indoloquinolines and intermediates  
 INVENTOR(S): Frey, Rodney Earl; Nish, Robert Te-Pong; Sternbach, Leo Henry; Walzer, Armin  
 PATENT ASSIGNEE(S): Hoffmann-La Roche, Inc., USA  
 SOURCE: 58 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 5  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4914983	A	19770329	US 1975-59684	19750716
CA 1012147	A1	19780614	CA 1975-18159	19750824
FI 740284	A	19780311	FI 1974-484	19740322
NO 740109	A	19780311	NO 1974-1038	19740322
SE 740396	A	19780311	SE 1974-3950	19740322
PRIORITY APPR. INFO. 1			US 1973-28210	A2 19730655
GI			US 1973-39391	A1 19730910



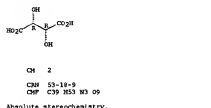
AB Indoloquinolines I (R = H, 2-Me, 2-Cl, 2-Me, 3-(2-FCOMe), R1, R2 = alkyl, aminoalkyl, R3 = H, 11-Cl, 10-Br, 10-Cl, 10-OMe, 10-F, 10-NO2, 1-Cl) were prep. Thus, 2-FCOMeR3CO2R2 was condensed with 4-ClCH2R1CO2R2, the indolecarboxylic acid (R1 = OMe) hydrolyzed and aminated.

I (R1 = H) (R2 = H) (R3 = H) cyclized with base to give I (R = H, R1 = H, R2 = H, R3 = H) (R1 = H, R2 = H, R3 = H). This comd. had anionom activity at 100 ng/kg.

IT 52665-42-4 CAPLUS  
 52665-42-4 CAPLUS  
 52665-42-4 CAPLUS  
 RI SPH (Synthetic preparation); 77EP (Preparation) (Europe, GI)

RI 52665-42-4 CAPLUS  
 CH 6H-Indolo[2,3-b]quinolin-6-one, 7-[2-(diethylaminoethyl)-5,7-dihydro-5-methyl- (SCI) (CA INDEX NAME)

113 ANSWER 42 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

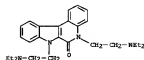


Absolute stereochemistry.

113 ANSWER 43 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

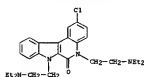


RI 52665-44-8 CAPLUS  
 CH 6H-Indolo[2,3-b]quinolin-6-one, 5,7-bis[2-(diethylaminoethyl)-5,7-dihydro-5-methyl- (SCI) (CA INDEX NAME)



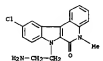
● 2 (ICI)

RI 52665-53-9 CAPLUS  
 CH 6H-Indolo[2,3-b]quinolin-6-one, 2-chloro-5,7-bis[2-(diethylaminoethyl)-5,7-dihydro-5-methyl- (SCI) (CA INDEX NAME)

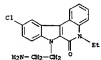


● 2 (ICI)

RI 52665-67-5 CAPLUS  
 CH 6H-Indolo[2,3-b]quinolin-6-one, 7-[2-aminoethyl]-10-chloro-5,7-dihydro-5-



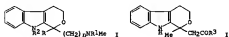
RN 52865-70-0 CAPLUS  
CN 6H-Indolo[2,3-c]quinolin-6-one,  
7-(2-aminoethyl)-10-chloro-5-ethyl-5,7-  
dihydro- (9CI) (CA INDEX NAME)



L13 ANSWER 44 OF 59 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 19771:155633 CAPLUS  
DOCUMENT NUMBER: 86:155633  
TITLE: Pyranone and thio-pyranonolide derivatives and compositions  
INVENTOR(S): Densmore, Christopher A.; Rubber, Leslie G.; Amelin, Andre A.; Jirkovsky, Ivor; Bonner, Thomas A.  
PATENT ASSIGNEE: Averett, McDermott and Harrison Ltd., Can. U.S., 47 pp. Continuation-in-part of U.S. 3,860,853.  
DOCUMENT TYPE: CORRESP: USPOKAM  
LANGUAGE: Patent  
FAMILY ACC. NUM. COUNT: English  
11

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4003913	A	19701108	US 1975-555096	19750305
US 3952285	A	19741003	US 1972-217627	19720113
SA 735687	A	19730731	US 1972-24875	19720113
AU 7250439	A1	19740627	AU 1972-35649	19721222
US 3948012	A	19750429	US 1973-37737	19730709
US 4056537	A	19771101	US 1976-733974	19760118
US 4016169	A	19770809	US 1976-733829	19760118
US 411894	A	19781003	US 1976-736624	19760208
			US 1977-822446	19770808
PRIORITY CLAIM, INFO. 1			US 1972-217627	19720113
			US 1973-37737	19730709
			US 1974-507085	19740818
			US 1975-555096	19750305
			US 1976-733974	19760118

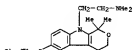
91



3 Pyranolindoles and thiopyranolindoles including I (R = R<sup>1</sup> = Me, R<sup>2</sup> = H,  
 2,3; R = R<sup>2</sup> = Me, n = 2; R = Me, R<sup>1</sup> = R<sup>2</sup> = H, n = 3; R = Fr, R<sup>1</sup> = Me,  
 R<sup>2</sup> = H) were prep'd. Thus, tryptophol was condensed with AcCNSO<sub>2</sub>Et  
 to give II (R<sup>3</sup> = Et), which was hydrolyzed and the free acid amidated  
 via the mixed anhydride [ClCOEt] with Me<sub>2</sub>NH to give II (R<sup>3</sup> = Me<sub>2</sub>), which  
 was reduced with LiAlH<sub>4</sub> to give I (R = R<sup>1</sup> = Me, R<sup>2</sup> = H, n = 2). I were  
 17 antipresent in the reserpine antagonist test at 1-15 mg/kg.  
 6240-12-9  
 R<sup>1</sup>: NCT (Reagent); SPN (Synthetic preparation); PRP (Preparation)

L13 ANSWER 44 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
(print. and repro. of)

(prespn. and redn. of)  
NN 62481-45-2 CAPIUS  
CM Pyrano[3,4-b]indole-9 (IH)-ethanamine,  
3,4-dihydro-N,N,1,1-tetramethyl-6-  
(phenylmethoxy)- (9CI) (CA INDEX NAME)



IT 42821-20-9P 42821-21-9P 42821-24-9P  
42821-25-9P 42821-26-1P 42821-27-2P  
42821-32-9P 42481-46-3P  
AL: SPN (Synthetic preparation); PREP (Preparation)  
(prep. of)

RN 42821-20-5 CAPLUS  
CN Pyrano[3,4-b]indole-9(1H)-ethanamine,  
3,4-dihydro-N,N,1,1-tetramethyl-  
(SCI) (CA INDEX NAME)



RN 42821-21-6 CAPLUS  
 CN Pyrano[3,4-b]indole-9(1H)-ethanamine,  
 3,4-dihydro-N,N,1,1-tetramethyl-,  
 hydrochloride (9CI) (CA INDEX NAME)



●x 7631

BN 42821-24-9 CAPLUS

L13 ANSWER 44 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 Q1. Synthesis of 3,4-bisindolyl-5(1H)-ethanamine.

CH Pyrano[3,4-b]indole-9(1H)-ethanamine,  
3,4-dihydro-N,N,1-trimethyl-1-propyl-  
(9CI) [CA INDEX NAME]



RN 42821-25-0 CAPLUS  
CN Pyrano[3,4-b]indole-9(1H)-ethanamine,  
3,4-dihydro-N,N,1-trimethyl-1-propyl-  
(22)-2-butenedionate (9CI) (CA INDEX NAME)

```

CH      1
CFON    42821-24-9
CHE     C12 H28 N2 O

```



04 2  
CPN 110-16-7  
CMT C4 H4 04

Double bond geometry as shown.



RN 42821-26-1 CAPLUS  
 CM Pyranol[3,4-b]indole-9(1H)-ethenamine, 3,4-dihydro-N,N,1-trimethyl-1-(phenylmethyl)- (SCI) (CA INDEX NAME)



IN 42821-27-2 CAPLUS  
 CM Pyrazol[3,4-b]indole-9-[1H]-ethanamine, 3,4-dihydro-N,N,1-trimethyl-1-phenylmethyl-, hydrochloride (HCl) (CA INDEX NAME)



● x HCl

IN 42821-32-9 CAPLUS  
 CM Pyrazol[3,4-b]indole-6-yl-9-[2-(dimethylamino)ethyl]-1,3,4,9-tetrahydro-1,1-dimethyl-, (HCl) (CA INDEX NAME)



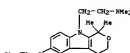
IN 62481-46-3 CAPLUS  
 CM Pyrazol[3,4-b]indole-9-[1H]-ethanamine, 3,4-dihydro-N,N,1,1-tetramethyl-6-phenylmethyl-, hydrochloride (HCl) (CA INDEX NAME)

L13 ANSWER 45 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1977:14982 CAPLUS  
 DOCUMENT NUMBER: 96114982  
 TITLE: Nervous system agents  
 3-aminotetrahydrocarbazoles as a new series of  
 Ca<sup>2+</sup> channel blockers  
 AUTHOR(S): Moorehead, Aram; Dupont, Paul E.; Nievaz, Allan  
 S-I: Aceto, Mario D.; Pearl, Jack  
 COMPANATE SOURCE: Sterling-Winthrop Res. Inst., Kenilworth, N. Y.,  
 USA  
 SOURCE: J. Med. Chem. (1977), 20(4), 497-52  
 CODEN: JMCMAA  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 DT

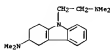


I. R=H, R<sup>1</sup>=H  
 II. R=Me, R<sup>1</sup>=H  
 III. R=H, R<sup>1</sup>=Me

AB OF 75 title compds., prepd. by Fisher cyclization of a cyclohexanone deriv. with 4-substituted phenylhydrazine, or the displacement reaction of an amine with a 3-(tosyloxy)-1,2,3,4-tetrahydrocarbazole deriv., none were more potent in preventing neostigmine-induced ptosis in mice than 3-(dimethylamino)-1,2,3,4-tetrahydrocarbazole (I) (62481-46-3). The 8-methyl deriv. (II) (62481-58-3) was as active as I in preventing ptosis. With ocular I, did not prevent amphetamine-induced stereotyped behavior in rats. The 6,4-di-fluoro deriv. (III) (62481-49-0) was very active in preventing induced stereotyped behavior but inactive in preventing ptosis. Structure-activity relations and correlations with chlorpromazine-like and imipramine-like activities are discussed.  
 77 4984-46-3  
 RI: BMC (Biological activity or effector, except adverse); SPN (Synthetic preparation); RIOL (Biological study); PPRP (Preparation)  
 (Prep. and control nervous system activity of)  
 IN 61804-56-2 CAPLUS  
 CM 9H-Carbazole-9-ethanamine, 3-(dimethylamino)-1,2,3,4-tetrahydro-8,8-dimethyl-, hydrochloride (HCl) (CA INDEX NAME)



● x HCl

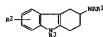


● HCl

113 ANSWER 46 OF 99 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1976522959 CAPLUS  
DOCUMENT NUMBER: 45123759  
TITLE: 3-Andro-1,2,3,4-tetrahydrocarbazoles  
INVENTOR(S): Morrell, R. M.  
PATENT ASSIGNEE(S): Sterling Drug, Inc., USA  
SOURCE: US 4,148,000  
COUNTRY: US/CA/UK  
DOCUMENT TYPE: English  
LANGUAGE: English  
PRIORITY APPL. INFO.:  
PRIORITY NO. KING DATE APPLICATION NO. DATE

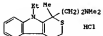
PATENT NO.	KING	DATE	APPLICATION NO.	DATE
US 3969309	A	19760525	US 1973-425055	19731217
US 3662915	A	19690215	US 1967-059606	19670810
US 4224335	A	19690923	US 1976-051842	19760123
US 4172814	A	19791030	US 1977-053811	19770606
US 4207952	A	19910324	US 1979-45917	19790606
PRIORITY APPL. INFO.:			US 1967-059606	19670810
			US 1968-10486	19680124
			US 1969-79345	19690123
			US 1971-17206	19710816
			US 1973-425055	19731217
			US 1974-465238	19740429
			US 1975-79157	19750620
			US 1977-803891	19770606

GI



AB Tetrahydrocarbazoles including I (R = R1 = Me, R2 = M, 6-Ome, 6-Cl, 6-Me, 8-Cl, 6-Me, 6-Cl, R3 = H), R1 = Me, R2 = H, R3 = CH2CO2Et, 4, CH2CO2Me, CH2CO2CH2CH3 (Me) 3, 4, 5, CH2CO2Et, Et, allyl, (CH2)3NH2.  
M, CH2CO2Et, R = Me, CH2CO2Et, Me, Et, CH2CO2Et, R1-R3 = H, R1 = morpholine, piperidine, pyrrolidine, 4-phenylpiperazine, R2 = R3 = prep. by condensing cyclohexanones II with 3,4-dihydro-2H-1,2,3,4-tetrahydrocarbazole I. I are psychotropic, antistress and analgesic. Thus, I (R = R1 = Me, R2 = H) was effective in reserpine protein in mice at 10 mg/kg i.p. 3212-05-09  
IT 3212-05-09  
R1 R2 (Synthetic preparation) / R2 (Preparation)  
[Prep. and psychotropic and antistress activity of]  
M 3212-05-09 CAPLUS  
M Carbazole-3-ethanamine, 3-(dimethylamino)-1,2,3,4-tetrahydro-2H-dimethyl-, dihydrochloride (PCI) (CA INDEX NAME)

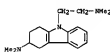
113 ANSWER 47 OF 99 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1976503883 CAPLUS  
DOCUMENT NUMBER: 45103833  
TITLE: The effects of tandansin, a new potential antidepressant agent, on biogenic amine uptake mechanisms and related activities  
AUTHOR(S): Lippman, Wilbur Pugsley, Thomas A.  
CORPORATE SOURCE: Biochem. Pharmacol. (1976), 25(10), 1179-86  
SOURCE: Biochem. Pharmacol. (1976), 25(10), 1179-86  
DOCUMENT TYPE: English  
LANGUAGE: English  
GI



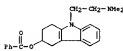
AB 4-(4-1-tandansin (I) (60188-81-1), which was one of several thymine(3,4-dihydro) and pyrazole(3,4-dihydro) based, was a potent inhibitor (K50 = 0.3 nM, i.p.) of in vivo norepinephrine (II) [51-41-2] uptake by mouse heart (3 times more active than desipramine-HCl [58-28-6]) and was relatively ineffective in potentiating the 5-hydroxytryptophan behavioral syndrome. A pyrazinamide and a thymine(3,4-dihydro) blocked both I and brain 5-hydroxytryptamine (III) [56-61-3] uptake with activities greater than or similar to imipramine-HCl [113-52-0]. I was the most potent antagonist of reserpine-induced hyperthermia and guanethidine sulfate-induced depletion of heart II. (-)-Tandansin (60188-79-2) was more active than either I or (+)-tandansin [60188-76-3] in blocking II and III uptake. The selective stereocenter.  
effects of I and some of its congeners suggest their use as antidepressants and in studying the uptake mechanism and functional significance of II and III.  
IT 60188-80-9 60188-81-1  
R1 R2 (Biological study)  
hydroxytryptamine and norepinephrine uptake by heart inhibition

by] M 60188-10-9 CAPLUS  
M Pyrazol[3,4-b]indole-5(1H)-ethanamine, 3,4-dihydro-2H,1,1-tetramethyl-, (2S)-2-butenedioate (1:1) (PCI) (CA INDEX NAME)  
CH 1  
CH 42821-20-5

113 ANSWER 46 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



● 2 HCl  
IT 60480-74-29  
R1: SPN (Synthetic preparation) / R2: (Preparation)  
[Prep. of]  
60480-74-2 CAPLUS  
CH 3P-Carbazol-3-ol, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-, heptafluoro-, monohydrochloride (PCI) (CA INDEX NAME)



● HCl

113 ANSWER 47 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

CH1 C17 H24 N2 O



CH 2  
CHN 110-16-7  
CH1 C4 H4 O4  
Double bond geometry as shown.



M 60188-81-0 CAPLUS  
M Pyrazol[3,4-b]indole-5(1H)-ethanamine, 3,4-dihydro-2H,1,1-trimethyl-, propyl-, ethanedisulfonate (1:1) (PCI) (CA INDEX NAME)  
CH 1  
CHN 42821-24-9  
CH1 C19 H28 N2 O



CH 2  
CHN 144-62-7  
CH1 C2 H2 O4





● HCl

IT 54188-29-12 54188-29-20 54188-29-20  
54188-30-09 54188-30-09 54188-30-09  
RU HCl (Bacterial) SW (Synthetic preparation); PREP (Preparation)  
CN 54188-29-12 CAPLUS  
CN Asapinol[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro- (HCl) (CA INDEX NAME)



RN 54188-28-2 CAPLUS  
CN Asapinol[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro-, monohydrochloride (HCl) (CA INDEX NAME)



● HCl

RN 54188-29-3 CAPLUS  
CN Asapinol[3,4-b]indol-1(2H)-one, 10-[2-(diethylamino)ethyl]-3,4,5,10-tetrahydro-, monohydrochloride (HCl) (CA INDEX NAME)



● HCl



● HCl

RN 54188-30-6 CAPLUS  
CN 10-Pyrrolo[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro- (HCl) (CA INDEX NAME)



RN 54188-32-8 CAPLUS  
CN Asapinol[3,4-b]indol-1(2H)-one, 10-[2-(diethylamino)ethyl]-3,4,5,10-tetrahydro- (HCl) (CA INDEX NAME)



RN 54188-33-8 CAPLUS  
CN 10-Pyrrolo[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-, monohydrochloride (HCl) (CA INDEX NAME)

L13 ANSWER 50 OF 99 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1976:30959 CAPLUS  
DOCUMENT NUMBER: 44:30959  
TITLE: Novel class of potential antidepressants,  
1-aminoalkyl-1,3,4,9-tetrahydro-pyrrolo[3,4-b]indoles  
AUTHOR(S): Rumber, Leslie G.; Desnereux, Christopher A.;  
Anselin, Andre A.; Charest, Marie F.; Feltz, Karel  
CORPORATE SOURCE: Dep. Chem., Ayrault Res. Lab., Montreal, Que., Can.  
SOURCE: Eur. J. Med. Chem., Chin. Ther. (1975), 10(3),  
215-20  
CODEN: EJMCA5  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
DE For diaspore(s), see printed CA Index.  
AB (Ammonio)pyrroloindoles I (R = H, Me, Et, Pr; R1 = H, 6-MeO,  
6-Fluoro,  
6-MeO, 5-Cl, 5-Me; R2 = H, Et, R3 = Me, Et; R4 = Me, Et; R5 = pyrrolidin-  
piperidin, morpholin, N-methylpiperidin; n = 2, 3) (24 compds.)  
were prepd. and their acute toxicities and antidepressant activities were  
detd.  
Condensation of MeCO(CH2)nCOX (n = 1, 2) with indolethanol II and  
subsequent alkylation with RX (X = halol and hydrolysis gave acids  
III (n  
= 1, 2). Amidation of III (n = 1, 2) with R3NHR4 followed by redn.  
with  
LiAlH4 gave I (n = 2, 3). I.HCl (A = Me, R1 = H, R2R4N = Me2N, n =  
2) (V)  
had an ED50 of 0.51 mg/kg i.p. in mice in the prevention of  
reserpine-induced ptosis. The enantiomers of V had the same  
magnitude of  
activity as the racemate.  
IT 87781-31-8e  
RI: BAC (Biological activity or effector, except adverse); SW  
(Synthetic  
preparation); THO (Therapeutic use); RIG (Biological study); PREP  
(Preparation); USE (Use)  
(gen. and antidepressant activity of)  
RN 87781-31-8 CAPLUS  
CN Pyrrolo[3,4-b]indole-9(1H)-ethanamine,  
1,4-dihydro-9-methyl-1,1-tetraethyl-,  
monohydrochloride (HCl) (CA INDEX NAME)



● HCl

113 ANSWER 51 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1975:53153 CAPLUS  
 DOCUMENT NUMBER: 8312153  
 TITLE: Pyrazino[1,2-a]- and 1,4-diazepino[1,2-a]indoles. Synthesis of pyrazino[2',1',3,4]pyrazino[1,2-a]indoles, isondolo[2',1',3,4]pyrazino[1,2-a]indoles and -1,4-diazepino[1,2-a]indoles, pyrazino[3,2,1'-]isobenzosides and 1,4-diazepino[3,2,1'-]isobenzosides  
 AUTHOR(S): Gatta, F.; Chiavarini, S.  
 CORPORATE SOURCE: Lab. Chim. Tss., Inst. Super. Sanita, Rome, Italy  
 SOURCE: Farmaco, Ed. Sci., (1975), 30(8), 631-41  
 CORDIS PROGRAM: Journal  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Italian  
 AB: For diagram(s), see printed CA Index.  
 AN: Condensed indoles I and II (R = CH2, CH2CH2, XI = O, R = H, Me, Ph) were  
 formed by cyclizing 1-(alkenyl)indoles with N-CH2CH2COOH or  
 o-R2COCH2CO2H. They were reduced to I and II (XI = R2) with LiAlH4.  
 I rearranged with HCl to III (R = H, Me, Ph, R1 = H, X = CH2, XI = O).  
 (R1 = bond, X = CH2, CH2CH2, XI = R2) were prepd. by hydrolyzing IV  
 and were reduced to IIZ (R = H) with NaBH4 or to IIZ (R = H, R1 = Me) with BuMg-Cl. Treatment of IIZ (R1 = bond) with Ac2O gave  
 N-acetylation with rearrangement of the double bond. Put N-acetyl  
 derivative  
 were aromatized with Pd-C. The oxime of IIZ (X = CH2, XI = O, R =  
 Me, R1  
 = H) underwent Beckmann rearrangement to V (X2 = CONH, NHCO).  
 IT 56533-64-7Y  
 RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
 (Reps. and hydrolysis of)  
 NI 56533-64-7Y CAPLUS  
 CN Acetamide, N-[2-(1,2,3,4-tetrahydro-9-oxo-9H-carbazol-9-yl)ethyl]-  
 (9CI) (CA INDEX NAME)



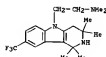
113 ANSWER 52 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1975:50140 CAPLUS  
 DOCUMENT NUMBER: 83120140  
 TITLE: Relation between the chemical structure and pharmacological activity of carboline derivatives  
 AUTHOR(S): Barkov, V. S.; Kuznetsov, V. P.  
 CORPORATE SOURCE: Inst. Farmakol., Moscow, USSR  
 SOURCE: Zhuk.-Farm. Zh., (1975), 21(4), 6-10  
 CORDIS PROGRAM: Journal  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 AB: For diagram(s), see printed CA Index.  
 AN: Twenty-one carboline derivatives were tested in mice for their effects on body temp., thiopental narcosis, aggression, locomotion, and pain. All of the compds. decreased body temp., I [56223-54-2] being most effective and decreasing body temp. by 0.7 degrees. Only 7 compds., including I, prolonged thiopental narcosis. All but 4 had antiaggressive effects, 3,4-dimethyl-1,2,3,4,4a,9a-hexahydro-9,9a-methylenecarboline-2HCl [34273-20-4] being most active. All but 2 were analgesic. Pharmacol. activity of these compds. depended on the aro. nucleus and on the position 6 of the  
 cyclic  
 6298-56-6 56223-63-9 56223-64-0  
 RI: RIG (Biological study)  
 NI 6298-56-6 CAPLUS  
 CN 5H-Pyrido[4,3-b]indole-5-ethanamine, 1,2,3,4-tetrahydro-N,N,1,1,3,3-hexamethyl- (9CI) (CA INDEX NAME)



NI 56223-43-6 CAPLUS  
 CN 5H-Pyrido[4,3-b]indole-5-ethanamine, 1,2,3,4-tetrahydro-N,N,1,1,3,3-hexamethyl- (9CI) (CA INDEX NAME)



113 ANSWER 52 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 NI 56223-64-0 CAPLUS  
 CN 5H-Pyrido[4,3-b]indole-5-ethanamine, 1,2,3,4-tetrahydro-N,N,1,1,3,3-hexamethyl-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)



I13 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1976:45350 CAPLUS  
 DOCUMENT NUMBER: 8115350  
 TITLE: Pharmacological properties of new derivatives of propionic acid, dimethylindole, and tetrahydrocarbazole  
 AUTHOR(S): Zdzieniec, Stanislaw Przemyslawski, Edmund; Jaglilo-Wojtowicz, Beata; Krasowska, Alicja  
 CORPORATE SOURCE: Wydz. Lab., Med. Med., Lublin, Pol.  
 SOURCE: Ann. Univ. Mariae Curie-Skłodowska, Sect. O (1973), 28, 227-33  
 DOCUMENT TYPE: CODING ABBREVS  
 LANGUAGE: Journal  
 CI For diagram(s), see printed CA issue.  
 AB When injected i.p. into mice, .beta.-((2,3-cyclopentano-1-indolyl)propionic acid hydrazide (1), .beta.-((1,2,3,4-tetrahydro-9-carbazolyl)propionic acid hydrazide [21144-99-0], .beta.-((2,3-cyclopentano-9-indolyl)propionic acid hydrazide, .beta.-((1,2,3-benzox-4,4-dihydro-9-carbazolyl)propionic acid hydrazide [21144-99-0], and .beta.-((2,3-dimethyl-1-indolyl)propionic acid hydrazide [40861-76-5] or 23 new propionate, dimethylindole, and tetrahydrocarbazole derivative, had a depressive effect on the central nervous system. The propaz. had a weak hyperbolic effect, protected the action of hexobarbital (35-40 mg/kg, i.p.), and inhibited the spontaneous activity of the animals.  
 17 23660-86-2 CAPLUS  
 CA 20-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-, sulfates (SCI) (CA INDEX NAME)  
 IN 23660-86-2 CAPLUS  
 CA 20-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-, hydrochloride (SCI) (CA INDEX NAME)



• x HCl

MF 52872-26-3 CAPLUS  
 CA 20-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-, sulfates (SCI) (CA INDEX NAME)

I13 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



I13 ANSWER 53 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

CH 1  
 CSM 23709-72-0  
 CMF C14 H18 N2

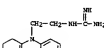


CH 2  
 CSM 7664-93-9  
 CMF H2 O4 S



MF 52872-26-3 CAPLUS  
 CA 20-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-9-ethyl-, sulfates (SCI)  
 (CA INDEX NAME)

CH 1  
 CSM 46972-37-6  
 CMF C15 H20 N4

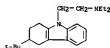


CH 2  
 CSM 7664-93-9  
 CMF H2 O4 S

I13 ANSWER 54 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1975:17666 CAPLUS  
 DOCUMENT NUMBER: 8217666  
 TITLE: 9-(2-Aminoethyl)-3-tert-butyl-1,2,3,4-tetrahydrocarbazoles  
 INVENTOR(S): E. S.  
 PATENT ASSIGNEE(S): Pfizer Corp.  
 SOURCE: Ger. Offen., 17 pp.  
 CODEN: GWAKES  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:  
 PATENT NO. KINO DATE APPLICATION NO. DATE  
 GB 1428767 A1 19750109 GB 1974-2425767 19740528  
 GB 1418763 A 19751224 GB 1973-26414 19730602  
 BE 815864 A 19741127 BE 1974-144793 19740827  
 NL 7407119 A 19741204 NL 1974-1700 19740828  
 US 3931222 A 19760106 US 1974-474151 19740829  
 JP 5058666 A2 19750820 JP 1974-00070 19740830  
 FR 2231390 A1 19741227 FR 1974-19003 19740831  
 GB 7402288 A 19750324 GB 1974-2568 19740831  
 GB 136245 A 19770912  
 US 3970787 A 19760720 US 1975-422788 19750515  
 GB 1973-26414 19730602  
 US 1974-474151 19740529

CI For diagram(s), see printed CA issue.  
 AB Seven carbazoles I (R = CH2CH2NH2, R1 = H2 = H2 or H2 or NHCH2 = 1-pyrrolidinyl or its N-oxide, morpholinyl, 1-oxapropyl, or dioxide of thiomorpholinyl), useful as antisercretory agents, were prep. mainly as salts, e.g. hydrochlorides, by reaction of I (R = H with HCl) in DMF in the presence of NaH on a steam bath optionally followed by salt formation or N-oxide.  
 17 55160-58-2 CAPLUS  
 CA 20-Carbazole-9-ethanamine, 3-(1,1-dimethyl-1H-1,2,3,4-tetrahydro-, ethanediol (SCI) (CA INDEX NAME)  
 CH 1  
 CSM 55160-58-2  
 CMF C22 H24 N2

L13 ANSWER 54 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



CH 2  
CHN 144-62-7  
CHP C2 H2 04



L13 ANSWER 55 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

UN 54188-27-1 CAPLUS  
CN Asepino[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro- (HCl) (CA INDEX NAME)



HN 54188-28-2 CAPLUS  
CN Asepino[3,4-b]indol-1(2H)-one, 10-[2-(dimethylamino)ethyl]-3,4,5,10-tetrahydro-, monohydrochloride (HCl) (CA INDEX NAME)



● HCl

HN 54188-29-3 CAPLUS  
CN Asepino[3,4-b]indol-1(2H)-one, 10-[2-(diethylamino)ethyl]-3,4,5,10-tetrahydro-, monohydrochloride (HCl) (CA INDEX NAME)



● HCl

HN 54188-30-6 CAPLUS  
CN 10-Pyrrolo[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro- (HCl) (CA INDEX NAME)

L13 ANSWER 56 OF 99 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1974:491594 CAPLUS  
OCNUMBER: 81191504  
TITLE: 1,2,5,6-Tetrahydro-3H-pyrazino[1,2,3-ab]-.beta.-carboline and homologs  
INVENTOR(S): Glushkov, R. G.; Meshkovskii, M. D.; Andreeva, N.  
A.: Liberman, S. S.; Gerschikov, L. N.; Volkova, V.  
PATENT ASSIGNOR(S): Selezneva, A. V.; Magidon, O. Yu.  
SOURCE: Otdel'khi, S., All-Union Scientific-Research Chemical-Pharmaceutical Institute  
LANGUAGI: Ger. OFCN, 16 PP.  
COUNTRY: USSR  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2357320	A1	19740322	OE 1973-2357320	19731116
US 2357320	C3	19791109		
US 2357320	B2	19790322		
GB 424739	A1	19791230	SU 1972-1846675	19721117

PR(ORITE APPL. INFO.: For description, see printed CA Index.  
AB Seven condensed indoles (I; n, m = 1 or 2; R = Me or Et; R1 = H, R or 9-MeO) and their salts, useful as antidepressants, were prepd. from the indoles I by successive treatment with POCl3 and NH4OH or EtOH.  
IT 986-86-9  
RI: ACT (Reactant)  
RN 986-86-9 CAPLUS  
CN 10-Pyrrolo[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-6-methoxy-, monohydrochloride (HCl) (CA INDEX NAME)



● HCl

IT 54188-27-1P 54188-28-2P 54188-29-3P  
54188-30-6P 54188-31-9P 54188-32-8P  
54188-34-0P 54188-35-1P  
Ns: 20N (Synthetic preparation); FREE (Preparation)  
(Prep. of)

L13 ANSWER 57 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



HN 54188-32-8 CAPLUS  
CN Asepino[3,4-b]indol-1(2H)-one, 10-[2-(diethylamino)ethyl]-3,4,5,10-tetrahydro- (HCl) (CA INDEX NAME)



HN 54188-33-9 CAPLUS  
CN 10-Pyrrolo[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-, monohydrochloride (HCl) (CA INDEX NAME)



● HCl

HN 54188-34-0 CAPLUS  
CN 10-Pyrrolo[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-7-methoxy- (HCl) (CA INDEX NAME)



HN 54188-35-1 CAPLUS  
CN 10-Pyrrolo[3,4-b]indol-1-one, 9-[2-(dimethylamino)ethyl]-2,3,4,9-tetrahydro-



● **WCI**

L13 ANSWER 56 OF 99 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1974:413480 CAPLUS  
DOCUMENT NUMBER: 01131480  
TITLE: Polyaryle compounds  
INVENTOR(S): Fryar, Rodney A.; Nylag, Robert Y. F.; Sternbach,  
Leo  
F. Walter, Armin  
Hoffmann-La Roche, F. and Co., A.-G.  
PATENT ASSIGNER(S): Ger. Offen., 110 pp.  
SOURCE: CORDEN  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 3  
PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
DE 2384169	AL 19740044	DE 2384169	19730226
DE 2384670	AL 19740731	DA 1973-6787	19730820
DE 2384671	AZ 19740731	DE 2384671	19730820
DE 2384672	AL 19740731	DE 2384672	19730820
DE 2384673	AL 19740731	DE 2384673	19730820
DE 2384674	AL 19740731	DE 2384674	19730820
DE 2384675	AL 19740731	DE 2384675	19730820
DE 2384676	AL 19740731	DE 2384676	19730820
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DE 2384700	AL 19740731	DE 2384700	19730820
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DE 2384712	AL 19740731	DE 2384712	19730820
DE 2384713	AL 19740731	DE 2384713	19730820
DE 2384714	AL 19740731	DE 2384714	19730820
DE 2384715	AL 19740731	DE 2384715	19730820
DE 2384716	AL 19740731	DE 2384716	19730820
DE 2384717	AL 19740731	DE 2384717	19730820
DE 2384718	AL 19740731	DE 2384718	19730820
DE 2384719	AL 19740731	DE 2384719	19730820
DE 2384720	AL 19740731	DE 2384720	19730820
DE 2384721	AL 19740731	DE 2384721	19730820
DE 2384722	AL 19740731	DE 2384722	19730820
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DE 2384726	AL 19740731	DE 2384726	19730820
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DE 2384728	AL 19740731	DE 2384728	19730820
DE 2384729			

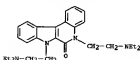
mg/kg orally.  
1T 12665-42-6F 12665-44-6F 12665-53-5F  
12665-56-6F 12665-67-5F 12665-70-6F  
AL: SPN (Synthetic preparation); FREE (Preparation)  
(prepa. of)  
RN 12665-42-6 CAPLUS  
CW 6F indol[1,2,3-c]quinolin-6-one,  
7-[2-(diethylamino)ethyl]-5,7-dihydro-5-  
methyl- (9CI) (CA INDEX NAME)

RN 52865-42-6 CAPLUS  
CN 6H-Indolo[2,3-c]quinolin-6-one,  
7-[2-(diethylenimino)ethyl]-5,7-dihydro-5-  
methyl- (9CI) (CA INDEX NAME)

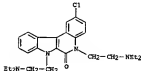
L13 ANSWER 56 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



PN 52865-44-8 CAPLUS  
 CN 6H-Indolo[2,3-c]quinolin-6-one,  
 5,7-bis[2-(diethylamino)ethyl]-5,7-dihydro-  
 , dihydrochloride (9CI) (CA INDEX NAME)

 $\bullet 2 \text{ HCl}$ 

HN 52865-53-9 CAPLUS  
CN 6H-indolo[2,3-e]quinolin-6-one,  
2-chloro-5,7-bis[2-(diethylamino)ethyl]-  
5,7-dihydro-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCT

RN 52865-58-4 CAPLIS  
 CN 7H-indolo[2,3-c]quinoline-7-ethanamine,  
 6,10-dichloro-N,N-diethyl-5,8-

513 ANSWER 56 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
dihydro- (9CI) (CA INDEX NAME)



RN 52865-67-5 CAPLUS  
 CN 6H-Indolo[2,3-c]quinolin-6-one,  
 7-(2-aminoethyl)-10-chloro-5,7-dihydro-5-  
 methyl- (9CI) (CA INDEX NAME)



IN 52665-70-0 CAPLUS  
CN 6H-indolo[2,3-c]quinolin-6-one,  
7-(2-aminoethyl)-10-chloro-5-ethyl-5,7-  
dihydro- (3CI) (CA [NUC NAME])



NCCN1C(=O)c2ccccc2N1C(=O)N3CCN(C3)C1=CC=CC=C1OC(=O)/C=C/C(=O)O

CRN 50823-70-6  
QNF C17 H24 N2 O



Q 2

CNN 110-17-8  
CME C4 M4 04

NC(=O)/C=C/C(=O)O

(prepn. of)  
50823-67-1 CAPLUS  
SH-Cerbazole-9-ethanamine, N,N-diethyl-1,2,3,4-tetrahydro-6-astro-  
(2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CPN 60523-66-0  
QMF C18 H25 N3 O2



```

L13 ANSWER 59 OF 99 CAPLUS COPYRIGHT 2002 ACS
LICENSATION NUMBER: 1973:492001 0002
DOCUMENT NUMBER: 79:0201
TITLE: 3,4-bis(4-benzyl-4-benzole end thiopyreno[3,4-b]indole
derivatives)
INVENTOR(S): Demerson, Christopher A.; Rumber, Leslie G.;
Aselink, Andre A.; Jirkovsky, Ivo L.; Dobson, Thomas A.;
Folz, Karel
PATENT ATTORNEY(S): Ayscett, McKenna and Harrison Ltd.
SOURCE: Ger. Offen., 17 pp.
DOCUMENT TYPE: COUSIN CHECKED
LAUSCHNET Patent
FAMILY ACC. NUM. COUNT: German
PATENT INFORMATION: 11

```

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2301825	A1	19730739	DE 1973-2501625	19730112
US 3852285	A	19741203	DE 1972-217627	19720113
US 3904617	A	19750909	US 1972-297130	19720102
ZA 7208775	A	19740731	ZA 1972-8375	19721216
AU 7250439	A1	19740627	AU 1972-50439	19721222
US 4565638	A	19771101	US 1976-733334	19760108
US 4206837	A	19771101	US 1976-733629	19760108
US 4118394	A	19781003	US 1977-812246	19770908

PRIORITY AFFIN. INFO. 1978-262626

[illegible]



RU 42821-21-6 CAPLUS  
CN Pyrazolo[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1,1-tetramethyl-, hydrochloride (XCI) (CA INDEX NAME)



● X NCI

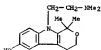
RU 42821-24-9 CAPLUS  
CN Pyrazolo[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1,1-trimethyl-1-propyl-, (XCI) (CA INDEX NAME)



RU 42821-25-0 CAPLUS  
CN Pyrazolo[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1,1-trimethyl-1-propyl-, (2S)-2-butenedioate (XCI) (CA INDEX NAME)

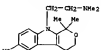
CHN 42821-24-9  
CHF C19 H28 N2 O

RU 42821-31-8 CAPLUS  
CN Pyrazolo[3,4-b]indole-9-cl, 9-[2-(dimethylamino)ethyl]-1,3,4,9-tetrahydro-1,1-dimethyl-, hydrochloride (XCI) (CA INDEX NAME)



● X NCI

RU 42821-32-9 CAPLUS  
CN Pyrazolo[3,4-b]indole-9-cl, 9-[2-(dimethylamino)ethyl]-1,2,4,9-tetrahydro-1,1-dimethyl-, (XCI) (CA INDEX NAME)



CH 2

CHN 130-16-7  
CHF C4 H4 O4

Double bond geometry as shown.



RU 42821-26-1 CAPLUS  
CN Pyrazolo[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1,1-trimethyl-1-(phenylmethyl)-, (XCI) (CA INDEX NAME)



RU 42821-27-2 CAPLUS  
CN Pyrazolo[3,4-b]indole-9(1H)-ethanamine, 3,4-dihydro-N,N,1,1-trimethyl-1-(phenylmethyl)-, hydrochloride (XCI) (CA INDEX NAME)



● X NCI

ACCESSION NUMBER: 1971407229 CAPLUS  
DOCUMENT NUMBER: 79-4729  
TITLE: N-Alkylaminoacarbazoles as potential anticonvulsant and diuretic agents  
AUTHOR(S): Satya P., Das, Prithvi Bhawan, Ekola N., Div. Med. Chem., Cent. Drug Res. Inst., Lucknow,  
INDIA  
J. Med. Chem. (1972), 16(4), 428-7  
COUNTRY: JMWAN  
JOURNAL  
LANGUAGE: English  
AB OF a no. of alkylaminoacarbazoles and their analogs synthesized, 9-(dimethylamino)propyl-2-methoxycarbazole (I) [41562-73-6] and 2-chloro-9-(dimethylamino)propyl-7-methoxycarbazole [41562-74-7] at 30 and 50 mg/kg i.p. resp., gave the best (100%) protection of mice against electroshock seizures. None of the comds. protected against pentylenetetrazole- or strychnine-induced convulsions, inhibited monoamine oxidase, or affected forced locomotor activity. A no. of comds. showed diuretic activity in rats; the most active, 2-methoxy-9-[(1-pyrrolidinyl)ethyl]carbazole [41544-29-0] (37.5 mg/kg orally) was twice as potent as chlorothiazide. The comds. were prepd. by condensing the appropriate 2-bromocyclohexanone and 1,3-dichlorobenzene and cyclizing the resulting biphenyl with triethyl phosphite.  
IT 41734-64-8P 41734-65-8P 41734-66-8P  
41734-63-8P 41734-68-0P  
RU 3H (Synthetic preparation(s)) PREP (Preparation(s))  
RU 41734-64-8, CACUS  
CN 9H-Carbazole-9-ethanamine, 6-fluoro-1,2,3,4-tetrahydro-N,N-dimethyl-, 4-aminobenzoate (I-II) (XCI) (CA INDEX NAME)

CH 1

CHN 48177-47-9  
CHF C16 H21 F N2



CH 2

L13 ANSWER 60 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

CHN 144-62-7

CHP C2 H2 O4



XN 41734-57-0 CAPLUS

CH 98-Carbazole-9-ethanamine, N,N-diethyl-6-fluoro-1,2,3,4-tetrahydro-, ethanediolate (1:1) (PCI) (CA INDEX NAME)

CH 1

CHN 25150-81-6

CHP C18 H23 F N2



CH 2

CHN 144-62-7

CHP C2 H2 O4



XN 41734-60-5 CAPLUS

CH 98-Carbazole-9-ethanamine, 6-chloro-N,N-diethyl-1,2,3,4-tetrahydro-, ethanediolate (1:1) (PCI) (CA INDEX NAME)

CH 1

CHN 25150-82-7

CHP C18 H25 Cl N2



CH 2

CHN 144-62-7

CHP C2 H2 O4



L13 ANSWER 60 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



CH 2

CHN 144-62-7

CHP C2 H2 O4



L13 ANSWER 60 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

CH 2

CHN 144-62-7

CHP C2 H2 O4



XN 41734-63-8 CAPLUS

CH Cyclohept[1H]indole-5(8H)-ethanamine, 2-chloro-7,8,9,10-tetrahydro-N,N-diethyl-, ethanediolate (1:1) (PCI) (CA INDEX NAME)

CH 1

CHN 48183-69-3

CHP C17 H23 Cl N2



CH 2

CHN 144-62-7

CHP C2 H2 O4



XN 41734-65-0 CAPLUS

CH Cyclohept[1H]indole-5(8H)-ethanamine, N,N-diethyl-7,8,9,10-tetrahydro-2-methoxy-, ethanediolate (1:1) (PCI) (CA INDEX NAME)

CH 1

CHN 48190-06-7

CHP C20 H30 N2 O

L13 ANSWER 61 OF 99 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1973/71829 CAPLUS

DOCUMENT NUMBER: 787829

TITLE: Cyclopentaffine condensed with heterocyclic rings.

115. Syntheses of

1-(1-oxo-2-quinolylmethyl)indole

Derivatives

Authors: Hahn, Witold Z.; Bartnik, Romuald; Kryzka,

Boleslaw

Source: Inst. Chem., Univ. Lodz, Lodz, Pol.

Source: Bot. Sci. Lett., Acta Chim. (1972), 17, 175-80

Source: SIACBC

Source: Journal

Language: English

AB: Pol. diagram(s), see printed CA issue.

AB: The title compd. (I) and the carbazole derivs. (II; R = C(=NH)NH2, n =

2,3) were prepd. by condensation of the corresponding indole- and

carbazolealkylamines with 5-methylisothiourea sulfate (III). Thus,

0.02 mole II (R = H, n = 2) and 0.03 mole III in 50% EtOH was heated 3 hr

on a

water bath to give 78 II, 1/2(III) (R = C(=NH)NH2, n = 2). Similarly

prepd. were I and II (R = C(=NH)NH2, n = 2, RCl salts; n = 3, 1/2(III) (R =

2,3)).

IT 23769-72-0P 39595-36-3P 40163-79-3P

40481-06-3P

Pub. No. (Synthetic preparation): PREP (Preparation)

(Group, of)

XN 23769-72-0 CAPLUS

CH 98-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro- (PCI) (CA INDEX NAME)

CH 1

CHN 39595-36-3 CAPLUS

CA 98-Carbazole-9-ethanamine, 1,2,3,4-tetrahydro-, sulfate (2:1) (PCI)

CA INDEX NAME)

CH 1

CHN 23769-72-0

CHP C14 H18 N2

CH 1

CHN 23769-72-0

CHP C14 H18 N2

CH 1

CHN 23769-72-0

CHP C14 H18 N2

CH 1

CHN 23769-72-0

CHP C14 H18 N2

CH 1

CHN 23769-72-0

CHP C14 H18 N2

CH 1

CHN 23769-72-0

CHP C14 H18 N2

CH 1

CHN 23769-72-0

CHP C14 H18 N2

CH 1

CHN 23769-72-0

CHP C14 H18 N2

CH 1

CHN 23769-72-0

CHP C14 H18 N2

CH 1

CHN 23769-72-0

CHP C14 H18 N2

CH 1

CHN 23769-72-0

CHP C14 H18 N2

CH 1

CHN 23769-72-0

CHP C14 H18 N2

CH 1

CHN 23769-72-0

CHP C14 H18 N2

CH 1

CHN 23769-72-0

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CHP C14 H18 N2



CM 2

CMN 7664-93-9

CMF H2 O4 5



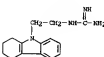
RM 40163-79-9 CAPLUS

CM Guanidine, [2-(1,2,3,4-tetrahydro-9H-carbazol-9-yl)ethyl]-, sulfate (2:1) (PCI) (CA INDEX NAME)

CM 1

CMN 46972-27-6

CMF C15 H20 N4



CM 2

CMN 7664-93-9

CMF H2 O4 5

L13 ANSWER 62 OF 99 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1979:9 CAPLUS

DOCUMENT NUMBER: 76185

TITLE:

Relationship between chemical structure and pharmacological activity of carboline derivatives

AUTHER(S): Barlov, N. N.; Zakharenko, A. F.

CORPORATE SOURCE: Neuchâtel-Lescl. Inst. Farmakol., Moscow, USSR

SOURCE: Khim.-Farm. Zh. (1972), 6(8), 23-7

COBEN: RUSSIAN

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB OF 21 carboline deriv. tested.

2,3,4,6,5,8a-benzhydro-2,8-dimethyl-1H-pyrido[4,3-b]indole-9HCl (I) [50162-17-3] had the greatest

antidepressant activity, surpassing that of imipramine [50-53-3], when tested on

rate and

MI-CP. Most of the derivs. had appreciable antidepressant activity,

and to a lesser extent were able to inhibit motion by the animals.

-genus-Carboline derivs. were generally more effective than

2,3,4,5-tetrahydro-2-methyl-1H-pyrido[4,3-b]indole-9-ethanamine-9HCl [56011-68-9] had significant analgesic

activity.

40431-89-9 46433-89-9 46434-81-4

MI 8105 (Biological study)

(transpolaris)

RM 40431-89-9 CAPLUS

CM 5H-Pyrido[4,3-b]indole-5-ethanamine,

1,2,3,4-tetrahydro-N,N,2-trimethyl-

dihydrochloride (PCI) (CA INDEX NAME)



● 2 HCl

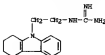
RM 40431-89-9 CAPLUS

CM 5H-Pyrido[4,3-b]indole-5-ethanamine, 1,2,3,4-tetrahydro-N,N,1,1,3,3-hexamethyl-, dihydrochloride (PCI) (CA INDEX NAME)



RM 40431-06-9 CAPLUS

CM Oxamide, [2-(1,2,3,4-tetrahydro-9H-carbazol-9-yl)ethyl]-, monohydrochloride (PCI) (CA INDEX NAME)



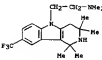
● HCl



● 2 HCl

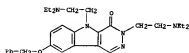
RM 40431-51-4 CAPLUS

CM 5H-Pyrido[4,3-b]indole-5-ethanamine, 1,2,3,4-tetrahydro-N,N,1,1,3,3-hexamethyl-4-(trifluoromethyl)-, dihydrochloride (PCI) (CA INDEX NAME)



● 2 HCl

L13 ANSWER 63 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 19721501501 CAPLUS  
 DOCUMENT NUMBER: 771301501  
 TITLE: 2-Carboethoxymethylindole derivatives. II. Synthesis and  
 8-(benzyloxy)-3-[N-(pyridin-2-yl)-4,5-bisindol-4-one  
 derivatives  
 AUTHOR(S): Hantke-Henrich, Pavel; Oudawa, Jofie  
 CORPORATE SOURCE: Inst. Chem. Org. Pol. Akad. Nauk, Warsaw, Pol.  
 SOURCE: Acta Pol. Pharm. (1972), 29(1), 13-16  
 COUNTRY: POLAND  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Polish  
 CI For diagram(s), see printed CA issue.  
 AB 1 (R = H) was hydrolyzed and alkylated by refluxing with HCl in DMF  
 or  
 diene and Na2CO3. 1 (R = H) Na salt was the reaction  
 intermediate. 1  
 (R = H) was hydrolyzed and alkylated by refluxing with HCl in DMF  
 prepd.  
 17 and showed antiinflammatory and antitubercular activity.  
 17  
 17 37415-63-4P  
 Re: SYN (Synthetic preparation); PREP (Preparation)  
 (Prep. of)  
 NM 37415-63-4 CAPLUS  
 CN 40-Pyridazin[4,5-b]indol-4-one, 3,5-bis[2-(diethylamino)ethyl]-3,5-  
 dihydro-1-(benzylmethoxy)- (PCI) (CA INDEX NAME)



L13 ANSWER 64 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

NM 37683-56-0 CAPLUS  
 CN 120-[1]benzoxepino[5,4-b]indole-12-ethanamine,  
 6,7-dihydro-N,N,9-trimethyl-  
 (PCI) (CA INDEX NAME)



NM 37683-58-2 CAPLUS  
 CN 120-[1]benzoxepino[5,4-b]indole-12-ethanamine,  
 9-bromo-6,7-dihydro-N,N,8-  
 dimethyl- (PCI) (CA INDEX NAME)



L13 ANSWER 64 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1972146958 CAPLUS  
 DOCUMENT NUMBER: 77146958  
 TITLE: Pharmacological activity spectra of some azapino-  
 and  
 benzoxepinoindole derivatives  
 AUTHOR(S): Artemenko, G. B.; Lakota, G. R.; Petrova, I. B.;  
 Kucherova, M. F.; Abramova, L. A.; Sherkina, M.  
 N.;  
 Sherkova, L. M.  
 CORPORATE SOURCE: Lab. Psichofarmacol., Inst. Farmacol., Moscow,  
 USSR  
 SOURCE: Farmakol. Tselikol. (Moscow) (1972), 35(3), 274-40  
 COUNTRY: U.S.S.R.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 AB Pharmacol. activities of 16 1,2,3,4,5,6-benzoxepino[4,5-b]indole  
 deriva. (I), 12H, 6,7-dihydroindol[2,3'-b]oxepino[4,5-b]indole deriva.  
 (II), and 12H, 6,7,12a-tetrahydroindol[2,3'-b]oxepino[4,5-b]indole deriva.  
 (III) were compared with those of imipramine (50-60-7), amitriptyline  
 (50-48-6),  
 doxepin (315-80-0), carbide (33162-17-3). The  
 benzoxepinoindoles  
 had pharmacol. activity similar to that of amitriptyline, whereas  
 dihydrobenzoxepinoindoles had both antidepressant and neuroleptic  
 properties, resembling carbide in pharmacol. activity. A comparison  
 of  
 the chem. structure of the substances with their pharmacol. activity  
 indicated that the dimethylaminoethyl deriv. of  
 dihydrobenzoxepinoindole  
 were more potent than the dimethylaminoethyl deriv. Introduction  
 of a  
 Me group or of Br into the para position with respect to indole N of  
 the  
 azapino and dihydrobenzoxepinoindole deriva. increased the ability of  
 the  
 comds. to potentiate the action of phaclofen (330-62-3), whereas the  
 introduction of Cl in the para position decreased this effect.  
 IT 37683-58-9 37683-56-0 37683-87-1  
 37683-58-2  
 Re: THO (Therapeutic use); BIO (Biological study); USES (Uses)  
 (Characterizing of)  
 NM 37683-55-9 CAPLUS  
 CN 120-[1]benzoxepino[5,4-b]indole-12-ethanamine,  
 6,7-dihydro-N,N-trimethyl-  
 (PCI) (CA INDEX NAME)



L13 ANSWER 65 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1972146239 CAPLUS  
 DOCUMENT NUMBER: 77146239  
 TITLE: 1-Alkylindole derivatives  
 INVENTOR(S): Okamoto, Tadashi; Kobayashi, Tsuyoshi; Yamamoto,  
 Hideo  
 PATENT ASSIGNOR(S): Sumitomo Chemical Co., Ltd.  
 SOURCE: Jpn. Tokkyo Kobo, 2 pp.  
 COUNTRY: JAPAN  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 4703462	A4	19720424	JP 3848-87470	19691128

GI For diagram(s), see printed CA issue.  
 AB 1-(2-thiazolidinethyl)-cyclopent[3,4-b]indole (I) sulfate, useful as a blood  
 pressure depressant, was prepd. by treating 1-(2-  
 thiazolidinethyl)cyclopent[3,4-b]indole hydrochloride with 8-methylanthioursa  
 or  
 8-methyl-NH<sub>2</sub> with refluxing.  
 IT 38402-70-7P  
 Re: SYN (Synthetic preparation); PREP (Preparation)  
 (Prep. of)  
 NM 38402-70-7 CAPLUS  
 CN Guadinia, (2-(2,3-dihydrocyclopent[3,4-b]indol-4(1H)-yl)ethyl)-, sulfate  
 (PCI) (CA INDEX NAME)  
 CN 1  
 CSM 46884-85-9  
 CMF C14 H18 NH



CN 2  
 CNM 7664-93-9  
 CMF H2 O1 2

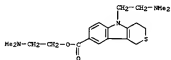
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 47033661	B4	19720424	JP 1968-87460	19681220

(CA INDEX NAME)



● 321

RN 36856-43-6 CAPTUS  
CN Cyclopent[b]indole-4(1H)-ethanamine, 8-chloro-2,3-dihydro- (9CI) (CA  
INDEX NAME)

[illegible]

FN 35156-05-9 CAPLUS  
CN Thiopyrano[2,3-b]indol-2 (9H)-one,  
9-[2-(diethylamino)ethyl]-4-methyl-,  
monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 68 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



● NCI

[illegible]

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17 1111-44-0
   HL 750 (Properties)
      (Histamine release from mast cells by Compd. 48/80 in relation to)
CN 1111-44-0 CAPSUS
   Yohimbene-16-carboxylic acid,
1-2-[2-(diethylamino)ethyl]-11,17-dimethoxy-16-
   [3,4,5-trimethoxybenzoyl)oxy]-, methyl ester,
   [3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.]-, (2R,3R)-2,3-
   dihydroxybutanedioate (1:1) (SCI) (CA INDEX NAME)

CH 1

CWN 87-69-4
CMF CA HS 06

```

**Absolute stereochemistry.**



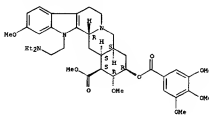
2 2

CUM 53-18-2

L13 ANSWER 69 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

QNF C39 H53 N3 09

Absolute stereochemistry.







113 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1971135588 CAPLUS  
 DOCUMENT NUMBER: 753585  
 TITLES: Synthetic trypanocides. 2; Substituted  
 5,6-dihydro[*c*]benzocarbazoles  
 Alkonco, Sam M.; Gallo Pardo, Jorge  
 8th. Thesis, Buenos, Univ. Buenos Aires, Buenos  
 Aires, Argent.  
 SOURCE: J. Med. Chem. (1971), 14(8), 448-9  
 CODEN: JMCMAH  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 CI For diagram(s), see printed CA issue.  
 AB 7-(2-Bimethylaminoethyl)-8-chloro-5,6-dihydro-7H-benzo[*c*]carbazole  
 (I) and  
 (II),  
 the most active compounds of 32 substituted  
 5,6-dihydro[*c*]benzocarbazoles  
 and substituted 5,6-dihydro[*c*]benzocarbazole fumarates, were prepd.  
 by the  
 Fisher indole synthesis and by a modified procedure (starting with  
 substituted phenylhydrazines and -beta,-tetralones). I and II, each  
 at  
 1000 mg/kg, orally or i.p., caused no deaths in mice. Furthermore,  
 it was  
 established that in complete contrast to N-substituted indole nucleus,  
 chloro  
 and methoxy substituents in the benzenoid portion of the aromatic  
 ring  
 provide higher activities against *Trypanosoma cruzi*.

17 32533-03-09 32533-04-09 32533-05-09  
 32533-06-09 32533-07-09 32533-08-09  
 32533-09-09 32533-10-09 32533-11-09  
 32533-12-09 32533-13-09 32533-14-09  
 32533-15-09 32533-16-09 32533-17-09  
 32533-18-09  
 AT: SYN (Synthetic preparation); PREP (Preparation)  
 (graph. 4f)  
 RN 32533-03-0 CAPLUS  
 CN 5H-Benzo[*c*]carbazole, 7-[2-(diethylamino)ethyl]-6,7-dihydro-,  
 fumarate (I) (ICI) (CA INDEX NAME)  
 (I) (I) (ICI) (CA INDEX NAME)  
 CN 1  
 CSM 31702-76-4  
 CMF C22 H26 N2

113 ANSWER 76 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

18 32533-18-0 CAPLUS  
 CN 5H-Benzo[*c*]carbazole,  
 7-[2-(diethylamino)ethyl]-6,7-dihydro-,  
 fumarate (I) (ICI) (CA INDEX NAME)  
 (I) (I) (ICI) (CA INDEX NAME)  
 CN 1  
 CSM 47433-11-4  
 CMF C22 H26 N2



CN 2  
 CSM 110-17-8  
 CMF C4 H4 O4

Double bond geometry as shown.



RN 32533-06-1 CAPLUS  
 CN 5H-Benzo[*c*]carbazole, 7-[2-(diethylamino)ethyl]-6,7-dihydro-10-iodo-,  
 fumarate (I) (ICI) (CA INDEX NAME)  
 (I) (I) (ICI) (CA INDEX NAME)  
 CN 1  
 CSM 47433-15-8  
 CMF C22 H26 I N2



CN 2

113 ANSWER 76 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



CN 2  
 CSM 110-17-8  
 CMF C4 H4 O4

Double bond geometry as shown.



RN 32533-04-0 CAPLUS  
 CN 5H-Benzo[*c*]carbazole,  
 7-[2-(diethylamino)ethyl]-6,7-dihydro-6,7-dihydro-,  
 fumarate (I) (ICI) (CA INDEX NAME)  
 (I) (I) (ICI) (CA INDEX NAME)  
 CN 1  
 CSM 47433-14-7  
 CMF C22 H25 F N2



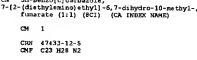
CN 2  
 CSM 110-17-8  
 CMF C4 H4 O4

Double bond geometry as shown.



113 ANSWER 76 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

19 32533-07-2 CAPLUS  
 CN 5H-Benzo[*c*]carbazole,  
 7-[2-(diethylamino)ethyl]-6,7-dihydro-10-methyl-,  
 fumarate (I) (ICI) (CA INDEX NAME)  
 (I) (I) (ICI) (CA INDEX NAME)  
 CN 1  
 CSM 47433-13-5  
 CMF C23 H28 N2

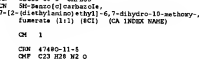


CN 2  
 CSM 110-17-8  
 CMF C4 H4 O4

Double bond geometry as shown.



RN 32533-08-3 CAPLUS  
 CN 5H-Benzo[*c*]carbazole,  
 7-[2-(diethylamino)ethyl]-6,7-dihydro-10-methoxy-,  
 fumarate (I) (ICI) (CA INDEX NAME)  
 (I) (I) (ICI) (CA INDEX NAME)  
 CN 1  
 CSM 47490-11-5  
 CMF C23 H28 N2 O





CH 2  
CIN 110-17-8  
CHF C4 H4 C4

Double bond geometry as shown.



IN 32533-89-4 CAPLUS  
CN 5H-Benzo[c]carbazole,  
7-[2-(diethylamino)ethyl]-8-fluoro-6,7-dihydro-,  
fumarate (1:1) (EC1) (CA INDEX NAME)

CH 1  
CIN 47433-09-0  
CHF C22 H25 F N2



CH 2  
CIN 110-17-8  
CHF C4 H4 C4

Double bond geometry as shown.



Double bond geometry as shown.



IN 32534-13-7 CAPLUS  
CN 5H-Benzo[c]carbazole, 7-[2-(diethylamino)ethyl]-8-fluoro-6,7-dihydro-8-iodo-,  
fumarate (1:1) (EC7) (CA INDEX NAME)

CH 1  
CIN 47433-10-3  
CHF C22 H25 I N2



CH 2  
CIN 110-17-8  
CHF C4 H4 C4

Double bond geometry as shown.



IN 32534-14-8 CAPLUS  
CN 5H-Benzo[c]carbazole,  
7-[2-(diethylamino)ethyl]-6,7-dihydro-8-methyl-,  
fumarate (1:1) (EC1) (CA INDEX NAME)

CH 1  
CIN 47433-07-8  
CHF C23 H29 N2

IN 32533-90-7 CAPLUS  
CN 5H-Benzo[c]carbazole, 8-chloro-7-[2-(diethylamino)ethyl]-6,7-dihydro-,  
fumarate (1:1) (EC1) (CA INDEX NAME)

CH 1  
CIN 47433-08-9  
CHF C22 H25 Cl N2



CH 2  
CIN 110-17-8  
CHF C4 H4 C4

Double bond geometry as shown.



IN 32534-12-6 CAPLUS  
CN 5H-Benzo[c]carbazole, 8-bromo-7-[2-(diethylamino)ethyl]-6,7-dihydro-,  
fumarate (1:1) (EC1) (CA INDEX NAME)

CH 1  
CIN 47433-06-7  
CHF C22 H25 Br N2



CH 2  
CIN 110-17-8



CH 2  
CIN 110-17-8  
CHF C4 H4 C4

Double bond geometry as shown.



IN 32534-15-9 CAPLUS  
CN 5H-Benzo[c]carbazole,  
7-[2-(diethylamino)ethyl]-6,7-dihydro-4-methoxy-,  
fumarate (1:1) (EC1) (CA INDEX NAME)

CH 1  
CIN 47480-08-1  
CHF C23 H29 N2 O



CH 2  
CIN 110-17-8  
CHF C4 H4 C4

Double bond geometry as shown.



L13 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

IN 32534-16-0 CAPLUS  
CN 5H-Benzof[c]carbazole,  
7-[2-(dimethylamino)ethyl]-10-fluoro-6,7-dihydro-,  
fumarate (1:1) (EC) (CA INDEX NAME)

CH 1  
CN 47271-03-4  
CHF C20 H21 F N2



CH 2  
CN 110-17-8  
CHF C4 H4 O4

Double bond geometry as shown.



IN 32534-18-2 CAPLUS  
CN 5H-Benzof[c]carbazole,  
8-chloro-7-[2-(dimethylamino)ethyl]-6,7-dihydro-,  
fumarate (1:1) (EC) (CA INDEX NAME)

CH 1  
CN 31792-72-0  
CHF C20 H21 Cl N2



CH 2

L13 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



CH 2  
CN 110-17-8  
CHF C4 H4 O4

Double bond geometry as shown.



L13 ANSWER 75 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

CN 110-17-8  
CHF C4 H4 O4

Double bond geometry as shown.



IN 32534-20-6 CAPLUS  
CN 5H-Benzof[c]carbazole,  
7-[2-(dimethylamino)ethyl]-6,7-dihydro-10-methoxy-,  
fumarate (1:1) (EC) (CA INDEX NAME)

CH 1  
CN 47334-74-7  
CHF C21 H24 N2 O



CH 2  
CN 110-17-8  
CHF C4 H4 O4

Double bond geometry as shown.

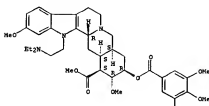


IN 32537-41-8 CAPLUS  
CN 5H-Benzof[c]carbazole,  
10-chloro-7-[2-(dimethylamino)ethyl]-6,7-dihydro-,  
fumarate (1:1) (EC) (CA INDEX NAME)

CH 1  
CN 47433-13-6  
CHF C22 H23 Cl N2

L13 ANSWER 76 OF 99 CAPLUS COPYRIGHT 2002 ACS

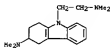
ACCESSION NUMBER 1971143497 CAPLUS  
DOCUMENT NUMBER 7513457  
TITLE Hypotensive effect of 1-[2-(diethylamino)ethyl]reserpine (Biotenserpine)  
AUTHOR(S) Onda, Hirokazu; Boteuchi, Kazuo; Matsumoto, Saburo;  
Kawakami, Masaru; Tanaka, Hideto; Tabata, Hiroshi;  
Shigenori and Co. Ltd., Osaka, Japan  
SOURCE Nippon Yakurigaku Zasshi 1970, 90(2), 248-50  
CODEN NYXZAD  
JOURNAL  
LANGUAGE Japanese  
DI For diagram(s), see printed CA issue.  
AB The hypotensive effect of biotenserpine (I) was compared with that of reserpine (II) and pyrenizopine (III) in unanesthetized rabbits, while the effect of I on monoamine release from peripheral organs was compared with that of II, III, and 10-methoxydeserpine in rats. I.v. I doses 35 mg/kg had hypotensive effects. I, II, and III produced no abnormal electrocardiogram patterns and had a similar potency with respect to minute. The potency of I in inducing a hypotensive effect, a vag. chronotropic effect, and a decrease of renal temp. was about 1/10th of the potency of III and <1/10th of the potency of II. I (25 mg/kg s.c.) caused a complete disappearance of catecholamine fluorescence in the duodenum and a partial disappearance of catecholamine fluorescence in the mesenteric vesicles and vas deferens; serotonergic distribution was not affected in these organs. The hypotensive mechanism of I appears to be similar to that of III.  
IT BP-18-9  
BUT MAC (Biological activity or effector, except adverse) TRU (Therapeutic use); BIOL (Biological study); USES (Uses) (Hypotensive activity of)  
IN 53-18-9 CAPLUS  
CN Tolidine-10-carboxylic acid,  
1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-  
[(2,4,4-trimethoxyphenoxymethyl)oxy], ethyl ester,  
[3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)]- (SICI) (CA INDEX NAME)  
Absolute stereochemistry.



L13 ANSWER 77 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1971406897 CAPLUS  
 DOCUMENT NUMBER: 701567  
 TITLE: Tetrahydrocarbazole derivatives  
 Parent Assignee(s): Sterling Drug Inc.  
 SOURCE: Brit., 18 pp.  
 CORDEN INDEX: 18055A  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 4  
 PARENT INFORMATION:

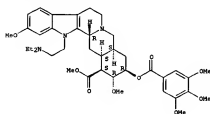
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 1235464	A	19710917	GB 1966-1235464	19660410
US 3642816	A	19720215	US 1967-659606	19670810
JP 5000797	B4	19700416	JP 1966-10819	19660423
CH 507945	A	19710331	CH 1968-507945	19680424
CH 517741	A	19710216	CH 1968-517741	19680424
NL 6606044	A	19690212	NL 1968-6044	19680429
FR 7695	B	19710220	FR 1968-7695	19680429
SE 714439	A	19681030	SE 1968-714439	19680430
SE 355018	B	19730602	SE 1968-6818	19680430
JP 52035669	B4	19770910	JP 1974-98822	19740229
FRIGLITY APPL. INFO.			US 1967-659606	19670810

AB Title compounds were prepd. Thus, a mixt. of 6.7 g 3-(dimethylamino)-1,2,3,4-tetrahydrocarbazole and 1.35 g HMF in 75 ml DMF was heated on a steam bath, and 5 g p-ClCH<sub>2</sub>COCl in 10 ml DMF added dropwise to give 4.9 g 3-[p-chlorobenzyl]-3-(dimethylamino)-1,2,3,4-tetrahydrocarbazole.  
 32312-05-89  
 RE: BP (Synthetic preparation) FHEP (Preparation)  
 (prepn. of)  
 CH 32312-05-8 CAPLUS  
 CH 95-Carbazole-9-ethanamine, 3-(dimethylamino)-1,2,3,4-tetrahydro-N-methyl-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

L13 ANSWER 78 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 197107715 CAPLUS  
 DOCUMENT NUMBER: 74197715  
 TITLE: Effect of amides on experimental stomach ulcer by stress  
 AUTHOR(S): Polywara, Motoharumi Mori, Jo  
 CORPORATE SOURCE: Sch. Med., Univ. Kyoto, Kyoto, Japan  
 SOURCE: Saitaku Tenbu (1978), 25(10), 2588-89  
 CORDEN INDEX: SA18AK  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Japanese  
 AB Male mature rats were subjected to cold stress (23 degree, bath, 20 hr), and the gastric mucosa was examd. histol. The i.p. injection of reserpine (2-5 mg/kg) ameliorated cold-stress ulcer. Pretreatment with a smaller amt. of reserpine (0.5-2 mg) at 5 hr before cold-stress more greatly accelerated ulcer formation. Viceration could also be induced by preinjection of tetraethazene or 10-8 flunaric acid, by histamine. Pretreatment with the monoamine oxidase inhibitors (iproniazid or nialamid) considerably protected the animals from cold-stress ulcer. The simultaneous administration of 3,4-dihydroxyphenylacetic acid or 5-hydroxytryptamine increased the protecting effect of the monoamine oxidase inhibitor. The results are discussed in abstract with the cerebral (serotonergic system) catechol amine connn.  
 IT 53-18-B  
 RL: NIOU (Biological study) (ulcers from)  
 BW 53-18-B CAPLUS  
 CH Yoshizawa-16-carboxylic acid, 1-[2-(dimethylaminoethyl)-11,17-dimethoxy-18-(D,4,5-trimethylbenzoyl)oxy]-, methyl ester, (3.beta.,16.beta.,17.alpha.,18.beta.,20.alpha.)- (HCl) (CA INDEX NAME)  
 Absolute stereochemistry.



20

113 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

CM 110-17-8  
CMF C4 H4 O4

Double bond geometry as shown.



RM 25150-76-8 CAPLUS  
CM 9H-Carbazole-9-ethanimine, N,N-diethyl-1,2,3,4-tetrahydro-6-methoxy-, (2E)-2-butenedione (111) (PCI) [CA INDEX NAME]

CM 1  
CMN 25150-81-6  
CMF C18 H25 F H2



CM 2  
CMN 110-17-8  
CMF C4 H4 O4

Double bond geometry as shown.



RM 25150-76-9 CAPLUS  
CM 9H-Carbazole-9-ethanimine, N,N-diethyl-1,2,3,4-tetrahydro-6-methoxy-, (2E)-2-butenedione (111) (PCI) [CA INDEX NAME]

CM 1  
CMN 25150-83-8  
CMF C19 H28 H2

113 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

CMN 25150-82-7  
CMF C18 H25 Cl H2



CM 2  
CMN 110-17-8  
CMF C4 H4 O4

Double bond geometry as shown.



RM 25159-32-7 CAPLUS  
CM 9H-Carbazole-9-ethanimine, N,N-diethyl-1,2,3,4-tetrahydro-8-methoxy-, (2E)-2-butenedione (111) (PCI) [CA INDEX NAME]

CM 1  
CMN 25150-85-0  
CMF C19 H28 H2 O



CM 2  
CMN 110-17-8  
CMF C4 H4 O4

Double bond geometry as shown.



RM 27839-17-9 CAPLUS

113 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



CM 2  
CMN 110-17-8  
CMF C4 H4 O4

Double bond geometry as shown.



RM 25150-77-0 CAPLUS  
CM 9H-Carbazole-9-ethanimine, N,N-diethyl-1,2,3,4-tetrahydro-6-methoxy-, (2E)-2-butenedione (111) (PCI) [CA INDEX NAME]

CM 1  
CMN 25150-84-9  
CMF C19 H28 H2 O



CM 2  
CMN 110-17-8  
CMF C4 H4 O4

Double bond geometry as shown.



RM 25159-31-6 CAPLUS  
CM 9H-Carbazole-9-ethanimine, 6-chloro-N,N-diethyl-1,2,3,4-tetrahydro-, (2E)-2-butenedione (111) (PCI) [CA INDEX NAME]

CM 1

113 ANSWER 80 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

CM Carbazole, 9-[2-(diethylamino)ethyl]-1,2,3,4-tetrahydro-6-iodo-, fumarate (111) (PCI) [CA INDEX NAME]

CM 1  
CMN 47144-01-4  
CMF C18 H25 I H2



CM 2  
CMN 110-17-8  
CMF C4 H4 O4

Double bond geometry as shown.



RM 27539-20-4 CAPLUS  
CM Carbazole, 9-[2-(diethylamino)ethyl]-1,2,3,4-tetrahydro-6-iodo-, fumarate (111) (PCI) [CA INDEX NAME]

CM 1  
CMN 47140-72-7  
CMF C18 H25 F H2



CM 2  
CMN 110-17-8  
CMF C4 H4 O4

Double bond geometry as shown.

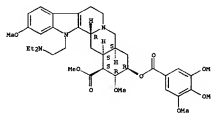






L13 ANSWER #3 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1869/450366 CAPLUS  
 DOCUMENT NUMBER: 713004  
 TITLE: 1-(diethylaminoethyl)reserpine  
 PATENT ASSIGNER(S): Societe Civile de Marques et Brevets  
 SOURCE: Fr.: 4 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

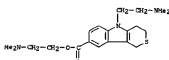
PATENT NO. KIND DATE APPLICATION NO. DATE  
 FR 1446049 19670508 FR 19650909  
 AB Reserpine is condensed with a halide X(CH<sub>2</sub>)<sub>2</sub>NO<sub>2</sub> (X = halo) in the presence of a condensation agent in Me<sub>2</sub>SO solvent at -20.degree. to give more easily purified 1-(diethylaminoethyl)reserpine (II). Thus, a soln. of 5 g. synthetic reserpine in 50 ml. Me<sub>2</sub>SO was combined under N with 1.6 g. EtONH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>Cl and 0.256 g. NaH (as a 50% mineral oil suspension) and the mixt. stirred 4 hrs. to give 5.02 g. I; distillate m. 141-50.degree.. Natural reserpine is also used to prep. I.  
 IT 53-18-99 23618-66-8  
 RI: 379 (Synthetical preparation); 379D (Preparation)  
 (group. 4)  
 IN 53-18-9 CAPLUS  
 CN Yohimbin-16-methoxy[[10 solid,  
 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-  
 (1,4,5-trimethoxybenzoyloxy)-, methyl ester,  
 (1beta,16beta,17-alpha,18-beta,20-alpha)-] (SCI) [CA INDEX  
 NAME]  
 Absolute stereochemistry.



IN 23618-66-8 CAPLUS

L13 ANSWER #4 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1869/403204 CAPLUS  
 DOCUMENT NUMBER: 713004  
 TITLE: Isodole derivatives. XVII. 1,2,3,4-tetrahydropropylol-4-olides  
 AUTHOR(S): Sharkova, M. K.; Kucherova, M. F.; Akhmanov, L. A.  
 CORPORATE SOURCE: Empirevill, V. A.  
 SOURCE: Inst. Pansod. Khimioter., Moscow, USSR  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 AB For diagram(p), see printed CA Index.  
 AB To a soln. of 248 g. C<sub>10</sub>H<sub>18</sub> in 215 ml. MeOH was added dropwise 200 g. Me acrylate at such a rate as to keep the temp. at 20-5.degree.. The whole was heated 1.5 hrs. at 60.degree. to yield 380 g. N-[(beta-methoxycarbonyl)ethyl]cyclohexylamine (I), b<sub>D</sub> 126-8.degree., n<sub>D</sub> 1.4623.  
 A mixt. of 250 g. I, 168 g. CH<sub>2</sub>ClCO<sub>2</sub>Et and 460 g. anhyd. K<sub>2</sub>CO<sub>3</sub> was heated 18 hrs. at 150.degree. in an autoclave, dild. with H<sub>2</sub>O, and extd. with Et<sub>2</sub>O to yield 261 g. N-[(beta-methoxycarbonyl)ethyl]-N-methoxycarbonylmethylcyclohexylamine (II), b<sub>D</sub> 155-7.degree., n<sub>D</sub> 1.4681.  
 To EtOH, prepd. from 18.2 g. Me, dried 30 min. at 150.degree. in vacuo, was added 170 g. II in 250 ml. anhyd. MeOH and the whole heated 1 hr. at 120.degree. with evapn. of EtOH. After cooling, the mixt. was treated with 1.3 l. 18% HCl, and the aq. layer sepd., refluxed 6 hrs., evapd. to 1/3 vol. in vacuo and basified with 50% NaOH to yield 124 III (R = cyclohexyl, R' = O), b<sub>D</sub> 136-7.degree., n<sub>D</sub> 1.4910. A mixt. of 0.01 mole III and 0.01 mole appropriate acrylylhydrazine-HCl in 10 ml. EtOH gave the following IV-ICI (R, G, m.p., and % yield given): Bu, p-MeC<sub>6</sub>H<sub>4</sub>, 134-5.degree., 55; Bu, p-MeOC<sub>6</sub>H<sub>4</sub>, 122-2.5.degree., 81; cyclohexyl, p-MeC<sub>6</sub>H<sub>4</sub>, 170-1.degree. (decomp.), 47; cyclohexyl, Ph, 166-4.degree., 100; PhCH<sub>2</sub>, p-MeC<sub>6</sub>H<sub>4</sub>, 144-5.degree., 55.6; PhCH<sub>2</sub>, p-MeOC<sub>6</sub>H<sub>4</sub>, 153-4.degree., 69; PhCH<sub>2</sub>, p-MeC<sub>6</sub>H<sub>4</sub>, 136-7.degree., 69; PhCH<sub>2</sub>, beta-naphthyl, 153-3.5.degree., 96. The IV-ICI refluxed with MeI-EtOH, poured onto ice, and K<sub>2</sub>CO<sub>3</sub> added, gave the following V (R, R', amt. of the resp. hydrazones-HCl in g., ml. of MeI-EtOH mixt., % of MeI in the reaction time (min.), m.p., and % yield given): Bu, Me, 15.3, 35, 34, 2, 164-9.degree. (HCl salt m. 173-4.degree.); 54; Bu, MeO, 3, 17.5, 2.5, 20, 146-9.degree. (methoxide m. 149-50.degree.); 11.5; Bu, H, 24, 32, 2,

[illegible]



●2 HCl

113 ANSWER #6 OF 99 CAPIUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1968-050784 CAPIUS  
 DOCUMENT NUMBER: 65-05784  
 TITLE: Comparison of the sedative effects of reserpine, pyrogalline, and bistaserpine using the mouse behavior tests  
 AUTHOR(S): Lafille, C.  
 CORPORATE SOURCE: Lab. Pharmacodyn., Meroville-St-Clair, Fr.  
 SOURCE: C. R. Soc. Biol. (1967), 161(12), 2461-5  
 CODEN: CRSBW  
 DOCUMENT TYPE: Journal  
 LANGUAGE: French  
 AB: 18 mice, the sedative effect of pyrogalline was 10 times weaker than that of reserpine, while the sedative effect of bistaserpine was 800 times weaker than that of reserpine and 40 times weaker than that of pyrogalline. Bistaserpine bitartrate may be considered a peripherally acting sedative.  
 IT 1111-44-0  
 RW 1111-44-0  
 CW 1111-44-0 CAPIUS  
 CW Yohimban-16-carboxylic acid, 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]- methyl ester, (3-beta.,16-beta.,17.alpha.,18-beta.,20.alpha.)-, (2S,3S)-2,3-dihydroxybutenedioate (1:1) (SCI) [CA INDEX NAME]

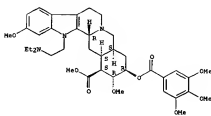
ON 1  
 ON 87-69-4  
 ON 64 H6 06

Absolute stereochemistry.



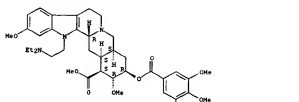
ON 2  
 ON 83-18-9  
 ON C39 H53 N3 O9

Absolute stereochemistry.



113 ANSWER #7 OF 99 CAPIUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1968-050784 CAPIUS  
 DOCUMENT NUMBER: 65-05784  
 TITLE: Inhibition of cyclic 3',5'-nucleotide phosphodiesterase by phenothiazine and reserpine derivatives  
 AUTHOR(S): Nishida, Kazuo; Iizawa, Hitom.  
 CORPORATE SOURCE: Res. Lab., Fujisawa Pharm. Co., Ltd., Osaka, Japan  
 SOURCE: Biochem. Biophys. Acta (1968), 16(1), 267-9  
 CODEN: BBACQ  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB: Chlorpromazine, perphenazine, fluphenazine, and prochlorperazine (all at 5 .times. 10-5M) decreased the activity of cyclic 3',5'-nucleotide phosphodiesterase from beef heart to 86, 86, 82, and 86% of the control level, resp., and from rabbit brain cortex to 80, 40, 36, and 36% of the control level, resp. In general, substitution of position 2 of phenothiazine with a halogen or a halogenated group appeared to potentiate the inhibitory effect. Chlorpromazine showed a comparable inhibitory effect. Butyrophenones, including haloperidol, showed lesser inhibitory effects at 5 .times. 10-5M. Imipramine, demethylimipramine, nortriptyline, norephedrine, and chlorisondamine (all at 5 .times. 10-5M) together with barbital, cocaine, picotolamine, epinephrine, and metoclopramide (at concns. as high as 10-3M) failed to show significant effects. Reserpine and 1-(diethylamino)ethylreserpine were more inhibitory than phenothiazine. 1-(Diethylamino)ethylreserpine was 100-200-fold more potent than theophylline and the inhibition by either compd. was competitive; perphenazine acted noncompetitively. Inhibition by perphenazine was enhanced by preincubating with the enzyme prior to substrate adm. and was reversed by dialysis. Pretreatment of rats with chlorpromazine 1-(or diethylamino)ethylreserpine (5-10 mg/kg.) potentiated the hyperglycemia induced by administration of cyclic 3',5'-AMP, suggesting the in vivo inhibition of cyclic 3',5'-nucleotide phosphodiesterase by these drugs.  
 IT 83-18-9  
 RW 83-18-9  
 CW 83-18-9 CAPIUS  
 CW Yohimban-16-carboxylic acid, 1-[2-(diethylamino)ethyl]-11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl)oxy]- methyl ester, (3-beta.,16-beta.,17.alpha.,18-beta.,20.alpha.)-, (2S,3S)-2,3-dihydroxybutenedioate (1:1) (SCI) [CA INDEX NAME]

Absolute stereochemistry.



113 ANSWER #1 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
oil. This was dissolved in abs. EtOH. dry HCl passed until the  
strongly acidic, and Et<sub>2</sub>O added to ppt. 46.7% 1-( $\gamma$ -  
dimethylamino)propyl]-2,3-pentamethylindole- $\alpha$ -HCl (VII), m.  
146-7, degree.  
(ECHOAGENTS). (This is procedure B). II (0.1 mole) and 0.12 mole  
488 NaH  
in 100 cc. DMF was stirred and warmed to 40, degree., 0.1 mole  
dimethylamino)propyl chloride added. the mixt. stirred at  
40, degree., 6  
hrs., and the suspension poured into 250 cc. ice water and sonified  
with  
comod. HCl to give 50.1% 1-( $\beta$ -hydroxydimethylamino)propyl]-2,3-  
pentamethylindole- $\alpha$ -HCl, m. 189-90, degree. (abs. EtOH). A soln. of  
0.1  
mole II was treated with NaH in 100 cc. DMF as described. To this  
stirred  
suspension, 0.1 mole freshly distd. 1-( $\beta$ -chloroethyl)pyrrolidine  
(VIII) was added. the mixt. kept 16 hrs., poured into 300 cc. ice  
water,  
acidified with comod. HCl, and extd. with Et<sub>2</sub>O, the aq. soln.  
basified  
with 40% NaOH soln. the oil that sepd. taken up in Et<sub>2</sub>O, the Et<sub>2</sub>O soln.  
washed  
with satd. NaCl soln., dried, and evapd., the residual oil dissolved  
in 50  
cc. EtOH, dry HCl passed through, and Me<sub>2</sub>CO added until crystals  
occurred  
to give 43.8%  
1-( $\beta$ -chloroethyl)pyrrolidine]-2,3-pentamethylindole- $\alpha$ -HCl, m.  
209-10, degree. (This is procedure C). A soln. of 0.1 mole II was  
converted to the Na deriv. using 0.12 mole 488 NaH in 150 cc. DMF.  
0.1  
mole freshly distd. diethylaminoethyl chloride was added dropwise,  
15-20  
min. stirred at 50, degree., 6 hrs. and poured into 33 cc. ice water,  
the  
comod. HCl added, the aq. soln. extd. with Et<sub>2</sub>O several times,  
the aq.  
layer basified, the product taken up in Et<sub>2</sub>O, and the Et<sub>2</sub>O soln.  
washed  
with satd. NaCl, dried, and evapd. in vacuo to give the free base  
which was dissolved in 50 cc. abs. EtOH and 4.8 g. fumaric acid in  
200 cc.  
1-m-DMF added to give 84.9 1-( $\beta$ -hydroxydimethylaminoethyl)-2,3-  
pentamethylindole fumarate, m. 187-8, degree. (abs. EtOH). the free  
base  
methiodide m. 186-7, degree.. A suspension of 0.1 mole of the Na  
deriv. of  
II in 100 cc. DMF was treated with 0.1 mole freshly distd.  
4-( $\beta$ -hydroxydimethylaminoethyl) morpholine (IX) at 50, degree., 6 hrs., the mixt.  
poured into 300 cc. ice water, 15-20 cc. comod. HCl added, the mixt.  
extd. with  
several times with Et<sub>2</sub>O, and the aq. phase sepd. and allowed to  
stand to  
give 71.6% 1-( $\beta$ -hydroxydimethylaminoethyl)-2,3-pentamethylindole- $\alpha$ -HCl, m.

113 ANSWER #1 OF 99 CAPLUS COPYRIGHT 2002 ACS  
ACQUISITION NUMBER: 186018679 CAPLUS  
DOCUMENT NUMBER: 40195079  
TITLE: Method of treating depression  
INVENTOR(S): Leo. Leonard and J. M. Wheeler Jr.  
PATENT ASSIGNOR(S): American Home Products Corp.  
SOURCE: U.S. 7 pp.  
CROSS: US0004M  
LARISSA: Katakai  
FAMILY ACC. NUM. CHENT: 1  
PATENT INFORMATION:  
PATENT NO. KIND DATE APPLICATION NO. DATE  
US 3228714 19670794 US 19650203  
GI For Diagram[pl], see patent US 3228714  
AB Depression is treated by the use of a. A soln. of 0.1 mole  
5-(3-pentamethylindole (II) in 100 cc. Me<sub>2</sub>CO (DMF) was added  
slowly to  
0.12 mole NaH (5 g. 48% dispersion) suspended in 50 cc. DMF by  
vigorous  
stirring, the temp. slowly raised to 30-35, degree. until H<sub>2</sub> evolution  
ceased, 0.1 mole freshly distd.  $\gamma$ -dimethylamino)propyl chloride  
(III)  
added to the suspension, the mixt. stirred and heated to 50, degree., 6  
hrs., poured into 300 cc. ice water, and extd. with Et<sub>2</sub>O, the Et<sub>2</sub>O  
layer  
separated up, and the residue in abs. EtOH treated with dry HCl to give  
1-( $\gamma$ -dimethylamino)propyl]-2,3-pentamethylindole- $\alpha$ -HCl (VII), m.  
146-7, degree. (ECHOAGENTS). (This is procedure A). The free base was  
prepd. from 0.1 mole II and 0.1 mole III as described. The reaction  
mixt.  
was poured into ice water, the oil layer extd. with Et<sub>2</sub>O, the Et<sub>2</sub>O  
soln.  
washed with aq. NaCl soln. several times with 100-cc. portions 2M  
NaCl, the  
Et<sub>2</sub>O and soln. basified with NaOH, the oil extd. with Et<sub>2</sub>O, and the  
Et<sub>2</sub>O  
soln. washed with aq. NaCl, dried, and evapd. to give the free base  
(V)  
corresponding to IV as a viscous yellow oil, b.p. 180-3, degree.,  
mixture  
m. 101-2, degree. (CH<sub>2</sub>Cl<sub>2</sub>-Et<sub>2</sub>O);  $\gamma$  methiodide, m. 186-7, degree.. III  
(0.1  
mole) was added to a well-stirred suspension of 0.1 mole of the Na deriv.  
of 2,3-hexamethylindole (VI) in 150 cc. DMF. After 6 hrs., the  
reaction  
mixt. was poured into 500 cc. ice water, the oil layer extd. with  
Et<sub>2</sub>O,  
the Et<sub>2</sub>O soln. washed with H<sub>2</sub>O, extd. with N HCl until acidic, and  
extd. with  
H<sub>2</sub>O, the aq. soln. washed with Et<sub>2</sub>O, basified, and extd. with  
Et<sub>2</sub>O,  
and the Et<sub>2</sub>O soln. washed with H<sub>2</sub>O, dried, and evapd. to give an  
orange

113 ANSWER #1 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
oil-2, degree. (oil. HCl). A suspension of 0.1 mole of the Na deriv.  
of II  
was treated with 0.1 mole freshly distd.  
1-( $\beta$ -chloroethyl)pyrrolidine  
(IX) at 50, degree., 6 hrs., the mixt. poured into 300 cc. ice water,  
the  
comod. HCl added, this mixt. extd. several times with Et<sub>2</sub>O, the  
Et<sub>2</sub>O  
layer basified, the product taken up in Et<sub>2</sub>O, and the Et<sub>2</sub>O soln.  
worked up  
to give 9 g. 1-( $\beta$ -hydroxydimethylamino)propyl]-2,3-pentamethylindole- $\alpha$ -HCl  
197-5, degree.; fumarate m. 244-5, degree.. Acrylonitrile (0.20 mole)  
was  
added slowly with cooling to a soln. of 0.2 mole II and 4 cc.  
triethylammonium methoxide (X) in Me<sub>2</sub>CO in 100 cc. CH<sub>2</sub>Cl<sub>2</sub>. The  
reaction  
temp. reached 80, degree. and dropped slowly. The mixt. was  
stirred and addn. hr., 5 cc. comod. HCl added, and the CH<sub>2</sub>Cl<sub>2</sub> soln.  
worked  
up to give 56.6% 1-( $\beta$ -hydroxydimethylamino)propyl]-2,3-pentamethylindole (XI),  
m.  
191-6, degree. (Me<sub>2</sub>CO-Me<sub>2</sub>CO). (This is procedure D). A soln. of 0.1  
mole II  
in 100 cc. dry CH<sub>2</sub>Cl<sub>2</sub> was added slowly to a stirred suspension of 0.1  
mole  
LiAlH<sub>4</sub> in 500 cc. dry Et<sub>2</sub>O, the mixt. heated to reflux and stirred  
overnight, 30 cc. H<sub>2</sub>O added slowly with cooling, the mixt. kept one  
hr.,  
and filtered, and the filtrate evapd. to give 11.5% 1-( $\gamma$ -  
dimethylamino)propyl]-2,3-pentamethylindole, b.p. 190-2, degree.; HCl salt m.  
213-2, degree. (Me<sub>2</sub>CO-Me<sub>2</sub>CO). (This is procedure E). Also,  
1-( $\gamma$ -  
dimethylamino)propyl]-2,3-pentamethylindole- $\alpha$ -HCl was prepd.  
from 0.05 mole of the sodium deriv. of II and 0.05 mole III  
using  
procedure A. The free base b.p. 178-80, degree.; HCl salt m.  
179-80, degree.. Also,  
1-( $\gamma$ -  
dimethylamino)propyl]-2,3-pentamethylindole- $\alpha$ -HCl was prepd.  
from 0.5 mole of the sodium deriv. of II and  
0.5 mole III using procedure B. The free base b.p. 180-3, degree. (62.5%  
yield); fumarate salt m. 141-3, degree..  
1-( $\beta$ -hydroxydimethylaminoethyl)-2,3-  
pentamethylindole was prepd. from 0.05 mole II and 0.05 mole  
IX using procedure A. The base  
b.p. 191-6, degree.; fumarate m. 213-2, degree.. 1-( $\beta$ -  
hydroxydimethylaminoethyl)-2,3-hexamethylindole was prepd. from 9.96 g. VI  
and  
3.38 g. XII using procedure B. The free base b.p. 180-3, degree. (62.5%  
yield); fumarate salt m. 198-5-201, 0, degree..  
1-( $\beta$ -hydroxydimethylaminoethyl)-2,3-hexamethylindole  
was prepd. from 0.05 mole VI and 0.5 mole VIII using procedure C. The  
fumarate m. 224-4-5, degree. (decolor).  
1-( $\gamma$ -  
dimethylamino)propyl]-2,3-  
tridecamethylindole was prepd. from 0.03 mole 2,3-  
tridecamethylindole and 0.03 mole III using procedure A. The  
fumarate





CM 2  
CMN 110-17-8  
CHF C4 H8 O4

Double bond geometry as shown.



RM 17929-99-6 CAPLUS  
CM Cyclohept[bl]indole,  
5-[2-(diethylamino)ethyl]-6,7,8,9,10-  
hexahydro-, fumarate (1:1) (EC) (CA INDEX NAME)

CM 1  
CMN 17963-67-8  
CHF C23 H28 N2



CM 2  
CMN 110-17-8  
CHF C4 H8 O4

Double bond geometry as shown.



RM 17993-66-7 CAPLUS  
CM 3H-Cyclohept[bl]indole,  
5-[2-(diethylamino)ethyl]-6,7,8,9,10,11-hexahydro-

113 ANSWER 65 OF 99 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 194637793 CAPLUS  
DOCUMENT NUMBER: 6837793  
TITLE: Anti-tumour and antiserotonic properties of  
1-oxo-1,2,3,4-tetrahydrocarbazole derivatives  
AUTHOR(S):  
CORPORATE SOURCE: Vasa, Neuch.-insad. Khim.-Farmatsv. Inst. in.  
Oryzhnitskiy, Moscow, USSR  
SOURCE: Farmakol. Toksikol. (Moscow) (1967), 30 (6),  
713-77  
CODEN: FATOAO  
DOCUMENT TYPE: Journal  
LANGUAGE: Russian  
AB Nix 8-alkylaminoalkyl- (I) and 2 N-lupinanyl-1-oxo-1,2,3,4-  
tetrahydrocarbazole (II), and 3 1-oxo-1,2,3,4-tetrahydrocarbazolyl  
carboxylic acid diethylaminoalkyl esters (III) were tested for  
antitumour and antiserotonic action in vivo in rats and guinea  
pigs and  
in vitro on isolated rat uterus and on guinea pig intestinal slices.  
I (R1 = H, R2 = H, R3 = H, R4 = H, n = 2), HCl exhibited the greatest  
antitumour  
properties and I (R2 = H, R3 = H, R4 = H, n = 2), HCl the strongest  
antiserotonic action. Lengthening the side chain to 3 methyl  
groups  
between the N atoms decreased both types of activity. The  
antitumour  
effect was also decreased by a substitution of Et for Me groups at the  
side chain R and by substitution onto the carbazole ring.  
IT 19595-64-3 19595-64-3 19595-64-3  
19595-64-3 19595-64-3 19595-64-3  
RM THE (therapeutic use); B101 (Biological study); U055 (Uses)  
(pharmacology of)  
RM 19595-64-3 CAPLUS  
CM 1H-Carbazol-1-one, 9-[2-(diethylamino)ethyl]-2,3,4,9-tetrahydro-,  
monohydrochloride (HCl) (CA INDEX NAME)



● HCl

RM 19595-64-3 CAPLUS  
CM 1H-Carbazol-1-one, 9-[2-(diethylamino)ethyl]-2,3,4,9-tetrahydro-,  
monohydrochloride (HCl) (CA INDEX NAME)

(EC) (CA INDEX NAME)



RM 17993-67-8 CAPLUS  
CM Cyclohept[bl]indole,  
5-[2-(diethylamino)ethyl]-6,7,8,9,10-  
hexahydro- (EC) (CA INDEX NAME)



RM 21293-91-6 CAPLUS  
CM Cyclohept[bl]indole,  
5-[2-(diethylamino)ethyl]-6,7,8,9,10-hexahydro-,  
monohydrochloride (HCl) (CA INDEX NAME)



● HCl



● HCl

RM 18638-84-1 CAPLUS  
CM Carbazol-1(2H)-one, 5-[2-(diethylamino)ethyl]-3,4-dihydro-6-methoxy-,  
monohydrochloride (HCl) (CA INDEX NAME)



● HCl

RM 18638-84-2 CAPLUS  
CM Carbazol-1(2H)-one, 5-[2-(diethylamino)ethyl]-3,4-dihydro-6-methyl-,  
monohydrochloride (HCl) (CA INDEX NAME)



● HCl

RM 18638-86-3 CAPLUS  
RM 18638-17-4 CAPLUS  
CM Carbazol-1(2H)-one, 6-chloro-5-[2-(diethylamino)ethyl]-3,4-dihydro-,  
monohydrochloride (HCl) (CA INDEX NAME)

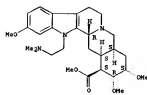


● HCl

L13 ANSWER 90 CF 99 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1967498993 CAPLUS  
DOCUMENT NUMBER: 6749093  
TITLE: Derivatives of yohimbane  
INVENTOR(S): Bonetti, Attilio  
PATENT ASSIGNEE(S): Inverni and Della Boffa S.p.A.  
SOURCE: Brit., 3 pp.  
CODEN: BROKAA  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

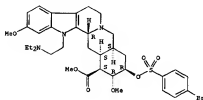
Absolute stereochemistry.

L13 ANSWER 50 OF 99 CA7LUS COPYRIGHT 2002 ACS (Continued)



3N 16617-18-8 CAPJUS  
CN 3.beta.,20.alpha.-Yohimban-16.beta.-carboxylic acid, 1-[2-(diethylamino)ethyl]-18.beta.-hydroxy-11,17.alpha.-dimethoxy-, methyl ester, p-bromobenzenesulfonate (ester) (SCI) (CA INDEX NAME)

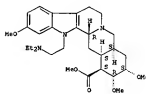
### Absolute stereochemistry



JN 16617-19-3 CAPLUS  
 CN 3.beta.,20.alpha.-Yohimban-16.beta.-carboxylic acid, 1-[2-(diethylamino)ethyl]-11,17.alpha.,18.alpha.-trimethoxy-, methyl ester (SICI) (CA INDEX NAME)

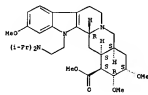
**Absolute stereochemistry.**

L13 ANSWER 90 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



RN 16617-27-9 CARBUS  
 CM 3.beta.,20.alpha.-Yohisban-16.beta.-carboxylic acid, 1-[2-  
 (diisopropylemino)ethyl]-11,17.alpha.,18.alpha.-trimethoxy-, methyl  
 ester

Absolute stereochemistry.



```

RN  16617-28-0  CAPLUS
CN  3.beta.,20.alpha.-Yohimban-16.beta.-carboxylic acid, 1-[2-
    (isopropylmethylamino)ethyl]-11,17.alpha.,18.alpha.-trimethoxy-,
    methyl
    ester (BCI)  (CA INDEX NAME)

```

Absolute stereochemistry.

CNCCN1C=CC=C2C(=C1)C=CC=C2

BH 29465-19-0 CARLIS

RN 29465-20-1 CAPIUS  
 CN Thiopyrano[4,3-b]indole,  
 5-[2-(dimethylamino)ethyl]-1,3,4,5-tetrahydro-  
 7(or 9)-[trifluoromethyl]-, monohydrochloride (RCT) [CA INDEX NAME]



● **NOT**

[illegible]

L13 ANSWER 92 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

dihydro[[benzothio]pyran-4,3-b]indole-HCl, m. 227-8.degree., 1,2,3,4-tetrahydro-gamma-carbolide reduced with NaH in methanol 2 hrs. ex.

60.degree., then treated with gamma-(4-methyl-1-piperazinyl)propyl chloride (IV) and kept overnight, gave 548

3-methyl-1-(gamma-(4-methyl-1-piperazinyl)propyl)-1,2,3,4-tetrahydro-gamma-carbolide, m. 76-7.degree.,

Similarly 1,3,4,5-tetrahydro[[pyran-4,3-b]indole and IV gave 948

5-gamma-(4-methyl-1-piperazinyl)propyl-1,3,4,5-tetrahydro[[pyran-4,3-b]indole-HCl, m. 218-6.degree.. Similarly were obtained 498

5-(or 7)-(trifluoromethyl)-9-gamma-(dimethylamino)propyl-1,2,3,4-tetrahydrocarbazole-HCl, m. 238-7.degree.; 7(or 9)-(trifluoromethyl)-11-beta-(dimethylamino)ethyl - 6,11-dihydro[[1]benzothio]pyran-4,3-b]indole-HCl, m. 253-5.degree.; 5-benzyl-1,3,4,5-tetrahydro[[pyran-4,3-b]indole, m. 197-8.degree.; 5-beta-(dimethylamino)ethyl-1,3,4,5-tetrahydro[[pyran-4,3-b]indole-HCl, decomp. 245-6.degree.,

5-gamma-(dimethylamino)propyl-1,3,4,5-tetrahydro[[pyran-4,3-b]indole-HCl (IVa), decomp. 209-2.degree.; 9(or 7)-(trifluoromethyl)-5-beta-(dimethylamino)ethyl-1,3,4,5-tetrahydro[[pyran-4,3-b]indole-HCl, decomp. 207-8.degree. (base m. 52-3.degree.); 9(or 7)-(trifluoromethyl)-8-

gamma-(dimethylamino)propyl-1,3,4,5-tetrahydro[[pyran-4,3-b]indole-HCl, m. 218-3.degree. (free base m. 85-6.degree.); 9(or 7)-(trifluoromethyl)-6-gamma-(4-methyl-1-piperazinyl)propyl-1,3,4,5-tetrahydro[[pyran-4,3-b]indole-HCl, decomp. 226-6.degree. (base m. 119-20.degree.); 7(or 9)-(trifluoromethyl)-11-beta-(dimethylamino)ethyl-6,11-dihydro[[1]benzothio]pyran-4,3-b]indole-HCl, m. 228-30.degree.; 7(or 9)-(trifluoromethyl)-11-gamma-(4-methyl-1-piperazinyl)propyl-6,11-dihydro[[1]benzothio]pyran-4,3-b]indole-HCl, decomp. 255-6.degree. (base m. 140-1.5.degree.); 11-beta-(dimethylamino)ethyl-6,11-dihydro[[1]benzothio]pyran-4,3-b]indole 5,8-dioxide-HCl, decomp. 277-3.degree.; 12-beta-(dimethylamino)ethyl-6,11-dihydro[[1]benzothio]pyran-4,3-b]indole-HCl decomp. 227-8.degree.; 3-methyl-1-(or 7)-(trifluoromethyl)-9-beta-(dimethylamino)ethyl-1,2,3,4-tetrahydro-gamma-carbolide, m. 67-9.degree. (cf. HCl salt m. 264-5.6.degree.), which gave tri-HCl salt, decomp. 221-3.degree..

111a, 111b, and IVa were comparable to or more active psychotropics in comparison with Tufozine.

117 5547-40-0, [[1]benzothio]pyran-4,3-b]indole, 11-[2-(dimethylamino)ethyl]-6,11-dihydro-9-(or 7)-(trifluoromethyl)-, monohydrochloride 5547-41-1, [[1]benzothio]pyran-4,3-b]indole, 11-[2-(dimethylamino)ethyl]-6,11-dihydro-

L13 ANSWER 92 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



● HCl

RN 30700-31-3 CAPLUS  
CN [[1]benzothio]pyran-4,3-b]indole, 11-[2-(dimethylamino)ethyl]-6,11-dihydro-9-(or 7)-(trifluoromethyl)-, monohydrochloride (HCl) (CA INDEX NAME)



● HCl

RN 98102-64-4 CAPLUS  
CN Carbazole, 9-[2-(dimethylamino)ethyl]-1,2,3,4-tetrahydro-5-(or 7)-(trifluoromethyl)-, hydrochloride (HCl) (CA INDEX NAME)

L13 ANSWER 92 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

5,8-dioxide, hydrochloride 30700-28-9, [[1]benzothio]pyran-4,3-b]indole, 11-[2-(dimethylamino)ethyl]-6,11-dihydro-7(or 9)-(trifluoromethyl)-, hydrochloride 30700-31-3, [[1]benzothio]pyran-4,3-b]indole,

11-[2-(dimethylamino)ethyl]-6,11-dihydro-7(or 9)-(trifluoromethyl)-, hydrochloride 98102-44-4, Carbazole, 9-[2-(dimethylamino)ethyl]-1,2,3,4-tetrahydro-5-(or 7)-(trifluoromethyl)-, hydrochloride 98987-37-3, CN [[1]benzothio]pyran-4,3-b]indole, 11-[2-(dimethylamino)ethyl]-6,11-dihydro-7(or 9)-(trifluoromethyl)-, monohydrochloride (HCl) (CA INDEX NAME)



● HCl

RN 5547-41-1 CAPLUS  
CN [[1]benzothio]pyran-4,3-b]indole, 11-[2-(dimethylamino)ethyl]-6,11-dihydro-9-(or 7)-(trifluoromethyl)-, monohydrochloride (HCl) (CA INDEX NAME)



● HCl

RN 30700-28-9 CAPLUS  
CN [[1]benzothio]pyran-4,3-b]indole, 11-[2-(dimethylamino)ethyl]-6,11-dihydro-7(or 9)-(trifluoromethyl)-, monohydrochloride (HCl) (CA INDEX NAME)

L13 ANSWER 92 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



● HCl

RN 98987-37-3 CAPLUS  
CN 6H-[[1]benzothio]pyran-4,3-b]indole, 12-[2-(dimethylamino)ethyl]-7,12-dihydro-9-(or 7)-(trifluoromethyl)-, monohydrochloride (HCl) (CA INDEX NAME)



● HCl





Et<sub>2</sub>N-CH<sub>2</sub>-CH<sub>2</sub>

RN 4629-99-5 CAPLUS  
CN 11-(2-(diethylamino)ethyl)-6,11-dihydro-5H-benzo(a)carbazole, fumarate (1:1) (ICI) (CA INDEX NAME)

CH 1

CN 4629-97-4  
CHF C22 H26 N2



Et<sub>2</sub>N-CH<sub>2</sub>-CH<sub>2</sub>

CH 2

CN 116-17-9  
CHF C4 H4 O4

Double bond geometry as shown.



113 ANSWER 95 OF 99 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1994:425265 CAPLUS  
DOCUMENT NUMBER: 6103255  
ORIGINAL REFERENCE NO.: 614300F-9  
TITLE: Antidepressant agents, Derivatives of 2,3-polymethylaminoindoles  
Riley, Leonard R.; Martz, Elizabeth; Fread, Heler E.  
CORPORATE SOURCE: Wyeth Labs., Philadelphia, PA  
SOURCE: J. Med. Chem. (1964), 7(3), 313-19  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable  
AB A series of substituted 2,3-(polymethylamino)indoles was prep'd. from phenylhydrazines and viclycol ketones by the Rogers-Carson condensation  
(CA 42, 1261a) of the Fischer indole synthesis or by the method of Kuebel  
(CA 44, 7307c). Alkylation of the Na deriv. of the (polymethylamino)indoles with diethylammonioalkyl chlorides gave N-alkyl derivs. The Na derivs. were prep'd. by treating the indoles in HCONH<sub>2</sub> with 48% NaOH mineral oil with HCONH<sub>2</sub> as solvent. The compds. were tested for central nervous system activity and weight loss activity. Some were active as antidepressants.  
In the weight loss test,  
5-[2-(diethylamino)propyl]-6,7,8,9,10,11-hexahydro-5H-cyclooct-[b]indole was the most active. The compds. are in the same psychopharmacol. family as imipramine.  
17 17991-79-8, Cyclohept[b]indole, 5-[2-(diethylamino)ethyl]-5,6,7,8,9,10-hexahydro-, methiodide 17929-99-9, Cyclohept[b]indole, 5-[2-(diethylamino)ethyl]-5,6,7,8,9,10-hexahydro-, fumarate 17929-99-3, Cyclohept[b]indole, 5-[2-(diethylamino)ethyl]-5,6,7,8,9,10-hexahydro-, fumarate 17929-99-3 in-Cyclooct[b]indole,  
5-[2-(diethylamino)ethyl]-6,7,8,9,10,11-hexahydro-  
Fumarate 17929-99-4, Cyclohept[b]indole, 5-[2-(diethylamino)ethyl]-5,6,7,8,9,10-hexahydro-, methiodide 17929-99-9, Cyclohept[b]indole, 5-[2-(diethylamino)ethyl]-5,6,7,8,9,10-hexahydro-, fumarate 17929-99-3 in-Cyclooct[b]indole,  
5-[2-(diethylamino)propyl]-6,7,8,9,10,11-hexahydro-  
Fumarate 17929-99-4, 5H-Cyclooct[b]indole,  
5-[2-(diethylamino)ethyl]-6,7,8,9,10,11-hexahydro-, fumarate (impure, 47)  
RN 17901-75-6 CAPLUS  
CN Cyclohept[b]indole, 5-[2-(diethylamino)ethyl]-5,6,7,8,9,10-hexahydro-, methiodide (ICI) (CA INDEX NAME)  
CH 1  
CN 47143-29-3  
CHF C17 H24 N2



CH 2

CN 74-88-4  
CHF C10 H12

113-1

RN 17929-92-9 CAPLUS  
CN Cyclohept[b]indole,  
5-[2-(diethylamino)ethyl]-5,6,7,8,9,10-hexahydro-, fumarate (1:1) (ICI) (CA INDEX NAME)

CH 1

CN 47143-29-3  
CHF C19 H28 N2



CH 2

CN 110-17-9  
CHF C4 H4 O4

Double bond geometry as shown.



RN 17929-99-3 CAPLUS  
CN Cyclohept[b]indole,  
5-[2-(diethylamino)ethyl]-5,6,7,8,9,10-hexahydro-, fumarate (1:1) (ICI) (CA INDEX NAME)

CH 1

CN 17901-83-6  
CHF C17 H24 N2



CH 2

CN 110-17-9  
CHF C4 H4 O4

Double bond geometry as shown.



RN 17929-96-3 CAPLUS  
CN NF-Cyclooct[b]indole,  
5-[2-(diethylamino)ethyl]-6,7,8,9,10,11-hexahydro-, fumarate (1:1) (ICI) (CA INDEX NAME)

CH 1

CN 17993-66-7  
CHF C18 H26 N2



CH 2

CN 110-17-9  
CHF C4 H4 O4

Double bond geometry as shown.



L13 ANSWER 95 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 RN 17929-93-6 CAPLUS  
 CN Cyclohept[b]indole,  
 5-[1- $\alpha$ ,, [dimethyl(azo)methyl]benzyl]-4,6,7,8,9,10-  
 hexahydro-, fumarate (1:1) (EC) (CA INDEX NAME)

CM 1  
 CMN 17933-67-8  
 CMF C23 H28 N2



CM 2  
 CMN 110-17-9  
 CMF C4 H4 O4

Double bond geometry as shown.



RN 190149-95-6 CAPLUS  
 CN 86-Cyclooct[b]indole,  
 5-[2-(dimethyl(azo)propyl)-6,7,8,9,10-hexahydro-  
 hydrochloride (TCI) (CA INDEX NAME)



● x HCl

RN 101058-93-9 CAPLUS  
 CN 86-Cyclooct[b]indole,  
 5-[2-(dimethyl(azo)propyl)-6,7,8,9,10,11-hexahydro-

L13 ANSWER 96 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 , fumarate (TCI) (CA INDEX NAME)

CM 1  
 CMN 101058-92-6  
 CMF C19 H26 N2



CM 2  
 CMN 110-17-9  
 CMF C4 H4 O4

Double bond geometry as shown.



RN 106844-04-6 CAPLUS  
 CN 86-Cyclooct[b]indole,  
 5-[2-(dimethyl(azo)ethyl)-6,7,8,9,10,11-hexahydro-  
 fumarate (TCI) (CA INDEX NAME)

CM 1  
 CMN 106844-03-5  
 CMF C20 H26 N2



CM 2  
 CMN 110-17-9  
 CMF C4 H4 O4

Double bond geometry as shown.

L13 ANSWER 95 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



L13 ANSWER 96 OF 99 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1964:11203 CAPLUS  
 DOCUMENT NUMBER: 60-11203  
 ORIGINAL REFERENCE NO.: 60-55766-b, 55774-e  
 TITLE: Retention analysis. I. Synthesis of  
 N-disubstitaminoalkyl derivatives of methyl 16-epireseparate  
 AUTHOR(S): Bombardelli, F.; Bonati, A.  
 CORPORATE SOURCE: Lab. Ric. Farm. della Hoffa S.p.A., Milan  
 SOURCE: Boll. Chim. Farm. (1963), 102(10), 703-8  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable  
 CI: For diagram(s), see printed CD issue.  
 AB: A stirred soln. of 4.28 g. I (R = H) and 1.31 g. MeMgBrCHClCl in 200 ml.  
 dioxane was boiled, and during 1 hr. 0.64 g. NaH suspended in oil  
 (50%) was added. After being refluxed 2 addnl. hrs., the soln. was concd.  
 and  
 extd. with CHCl3 and the mat. washed with aq. NaCl, dried, and  
 evapd. to give 3.8 g. I (R = MeMgBrCHClCl), m. 155-7 degrees.  
 [alpha.]20D  
 -15 degrees., dipicrate m. 150-2 degrees., dimethiodide m.  
 214-17 degrees.  
 To 75 ml. liquid HgO was added 0.5 g. K2O2. The mixt. was kept at  
 -45 degrees. for 20 min., then 4.26 g. I (R = H) was added and the  
 mat.  
 shaken for 10 min. followed by the addn. of 1.75 g. of  
 iso-7-MgMgBrCHClCl  
 in 15 ml. of dry Et2O. After being shaken at -45 degrees. to  
 -60 degrees.  
 for 3 hrs., the soln. was allowed to evap. and the residue dissolved  
 in  
 Et2O, washed with H2O, and evapd. to give 2.7 g. I (R =  
 iso-7-MgMgBrCHClCl).  
 m. 160-8 degrees. [alpha.]20D -60 degrees.; dipicrate m. 152-4 degrees.,  
 dimethiodide m. 212-13 degrees. Rn 3.15 g. Me 16-C-Gr-  
 bromophenylmethylfumarate and 0.95 g. EtMgBrCHClCl (II) in 200 ml.  
 dioxane was boiled, and then 0.202 g. NaH suspended in oil (50%) added  
 slowly, and the mat. refluxed 2 hrs., the reaction was still not  
 complete. An addnl. 0.8 g. of 21 and 0.15 g. NaH in oil were added. The  
 filtered soln. was concd. to give 3.8 g. Me  
 1-dimethylaminoethyl-16-C-Gr-  
 bromophenylmethylfumarate, m. 180-2 degrees., [alpha.]20D  
 -95 degrees.  
 A soln. of 1.2 g. of this and 0.5 ml. Et3N in 300 ml. EtOH was heated  
 20  
 hr. in a sealed tube at 180 degrees.. The soln. was evapd., and the  
 residue extd. with CHCl3 and washed with NaHCO3 to give I (R =  
 EtMgBrCHClCl), m. 155-8 degrees., [alpha.]20D -57.5 degrees.; dipicrate  
 m.  
 123-6 degrees.; dimethiodide m. 192-4 degrees.. The following I were  
 prepd.  
 (R, m.p., [alpha.]20D, m.p. dipicrate, and m.p. dimethiodide given):  
 iso-7-MgMgBrCHClCl, 150-7 degrees., -70 degrees., 143-6 degrees.,  
 203-5 degrees.,  
 MeCH(CH3), 158-53 degrees., -52.5 degrees., 128-30 degrees.,  
 204-5 degrees.,

L13 ANSWER 96 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

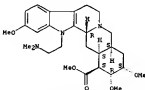
.beta.-riparidioneethyl, 166-8.degree., -47.5.degree., 138-10.degree., 205-5.degree., .beta.-morpholineethyl, 181-60.degree., -54.3, 135-7.degree., 206-8.degree.. All rotations were in CHCl<sub>3</sub> at c = 1.

17 16617-17-7, 18-Spirorepic acid, 1-[2-(dimethylamino)ethyl]-O-methyl-, methyl ester 16617-18-9, 18-Spirorepic acid, 1-[2-(dimethylamino)ethyl]-O-methyl-, methyl ester 16617-27-9, 18-Spirorepic acid, 1-[2-(diisopropylamino)ethyl]-O-methyl-, methyl ester 16617-27-9, 18-Spirorepic acid, 1-[2-(diisopropylamino)ethyl]-O-methyl-, methyl ester, dipicrate (pmpo, of)

18 16617-17-7 CAPLUS

CH 3 .beta.,20.alpha.-Yohimban-16.beta.-carboxylic acid, 1-[2-(dimethylamino)ethyl]-11,17.alpha.,18.alpha.-trimethoxy-, methyl ester (ICI) (CA INDEX NAME)

Absolute stereochemistry.

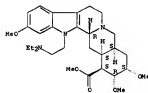


18 16617-19-8 CAPLUS

CH 3 .beta.,20.alpha.-Yohimban-16.beta.-carboxylic acid, 1-[2-(dimethylamino)ethyl]-11,17.alpha.,18.alpha.-trimethoxy-, methyl ester (ICI) (CA INDEX NAME)

Absolute stereochemistry.

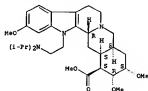
L13 ANSWER 96 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



18 16617-27-9 CAPLUS

CH 3 .beta.,20.alpha.-Yohimban-16.beta.-carboxylic acid, 1-[2-(diisopropylamino)ethyl]-11,17.alpha.,18.alpha.-trimethoxy-, methyl ester (ICI) (CA INDEX NAME)

Absolute stereochemistry.



18 16617-27-9 CAPLUS

CH 18-Spirorepic acid, 1-[2-(dimethylamino)ethyl]-O-methyl-, methyl ester, dipicrate (ICI) (CA INDEX NAME)

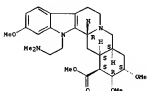
CH 1

CHW 16617-17-7

CHF C24 H41 N3 O5

Absolute stereochemistry.

L13 ANSWER 96 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)



CH 2

CHW 74-88-4

CHF C H3 I

HyC-I

18 16617-24-3 CAPLUS

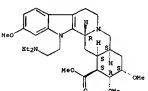
CH 18-Spirorepic acid, 1-[2-(diethylamino)ethyl]-O-methyl-, methyl ester, dipicrate (ICI) (CA INDEX NAME)

CH 1

CHW 16617-19-8

CHF C30 H45 N3 O5

Absolute stereochemistry.



CH 2

CHW 74-88-4

CHF C H3 I

L13 ANSWER 96 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)

HyC-I

18 16617-35-4 CAPLUS

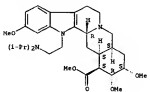
CH 18-Spirorepic acid, 1-[2-(diisopropylamino)ethyl]-O-methyl-, methyl ester, dipicrate (ICI) (CA INDEX NAME)

CH 1

CHW 16617-27-9

CHF C32 H49 N3 O5

Absolute stereochemistry.



CH 2

CHW 74-88-4

CHF C H3 I

HyC-I

18 16617-36-9 CAPLUS

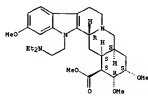
CH 18-Spirorepic acid, 1-[2-(diethylamino)ethyl]-O-methyl-, methyl ester, dipicrate (ICI) (CA INDEX NAME)

CH 1

CHW 16617-19-8

CHF C30 H45 N3 O5

Absolute stereochemistry.



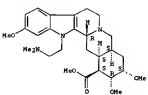
CM 2  
CM 88-89-1  
CMF C5 H3 N3 O7



RM 106278-92-6 CAPLUS  
CM 18-epi-89-1, 1-[2-(diisopropylamino)ethyl]-O-methyl-, methyl  
ester, dihydrate (7C1) (CA INDEX NAME)

CM 1  
CM 16617-17-7  
CMF C28 H41 N3 O5

Absolute stereochemistry.



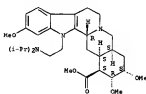
CM 2  
CM 88-89-1  
CMF C5 H3 N3 O7



RM 106278-92-6 CAPLUS  
CM 18-epi-89-1, 1-[2-(diisopropylamino)ethyl]-O-methyl-, methyl  
ester, dihydrate (7C1) (CA INDEX NAME)

CM 1  
CM 16617-17-7  
CMF C28 H41 N3 O5

Absolute stereochemistry.



CM 2  
CM 88-89-1  
CMF C5 H3 N3 O7



L13 ANSWER 97 OF 99 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1963-11594 CAPLUS  
DOCUMENT NUMBER: 56115594  
ORIGINAL REFERENCE NO.: 59,280FF-4,2110a-b  
TITLE: Synthesis of indole derivatives by substitution  
in the  
-alpha- position  
AUTHOR(S): Kierulff, R.; Hoffmann, K.  
CORPORATE SOURCE: CIBA S.A., Basel, Switz.  
SOURCE: Gerz. Chem. Ital. (1963), 63, 238-43  
DOCUMENT TYPE: Journal  
LANGUAGE: French  
CI For diagram(s), see printed CA issue.  
AB The -alpha-11 deriv. of N-alkylindoles are very reactive and readily  
accessible and allow the synthesis of various -alpha- substituted  
indoles  
The -alpha-11 deriv. of 1-methylindole (I) with AcOCH2CH2  
yielded the 2-[112CH2CH2CH2(OH)] deriv. of I, which treated with eq.  
CH2O  
and KOH gave the 2-[112CH2CH2CH2(OH)] deriv. (II) of grams. If MeI  
heated in 100-degree, lost MeOH with the formation of III, which  
heated at  
220-degree, was aromatized with the loss of H2O and CH2O. The 2-CHO  
deriv. of N-alkylindoles exhibit a very pronounced aromatic  
character.  
they yield with unsubstituted hydrazine in good yields the  
corresponding hydrazones which by catalytic hydrogenation yielded the  
2-hydroxymethyl deriv. these reacted with eq. CH2O and aliphatic  
and  
aromatic aldehydes to yield by cyclization the corresponding IV. The  
group of IV can be acylated, and the resulting N-acyl deriv. be  
reduced  
with LiAlH4 to the corresponding N-alkyl deriv. Thus, IV (R, R' =  
Me,  
R'' = H) was obtained from 1-methyl-2-indolylcarboxaldehyde (V) with  
MeNH2, hydrogenation of the hydrazine, and condensation with eq.  
CH2O  
Similarly were prepd. VI (R, R'' = Me, R' = Et, R' = iso-Pr) and VI  
(R =  
Me, R' = PhCH2, R'' = iso-Pr, R''' = Ph). V with H2NCH2CH2CH2 gave the  
corresponding Schiff base which was hydrogenated to the  
2-Ethoxy-2-methyl-  
analogs of V) this acetylated with Ac2O and sapon. with KOH gave the  
2-NEt  
CH2CH2CH2CH2 analog (VI) of V. VII is dioxane heated 10 min. at  
115-degree, with Ac2O and MeOH yielded FOR  
N-acetyl-, gamma-cyanoethylhydro-  
beta-macrolin (VIII) and some beta-Ac deriv. of VIII. VII  
heated 6  
hrs. with AcCl at 40-degree, yielded IX (R = Ac). VIII reduced with  
NaBH4, and the resulting alc. (X) heated at elevated temps. yielded  
N-acetyl-, beta-macrolin. The hydrolysis of VIII yielded  
deacetylated compd., the HCl salt of which aromatized upon heating.  
1-Methyl-2-methyl-2-indolylcarboxaldehyde (XI) with PhNH2 yielded  
the  
2-PhCH2CH2CH2 analog (XII) of XI. XII, XIII is rather unstable and gave  
with

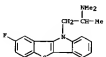
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3624248		19620306	US	19560919

GI For diagram(s) see printed CB Issue

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methyl-, hydrochloride **99780-78-1**, 10H-[1]benzothieno[3,2-b]indole, 7-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride **99866-37-0**, 10H-[1]benzothieno[3,2-b]indole, 7-chloro-10-[2-(dimethylamino)propyl]-, methanesulfonate **99868-33-8**, 10H-[1]benzothieno[3,2-b]indole, 3-chloro-10-[2-(dimethylamino)propyl]-7-methoxy-, hydrochloride **99869-86-6**, 10H-[1]benzothieno[3,2-b]indole, 3-chloro-10-[2-(dimethylamino)propyl]-7-methoxy-, hydrochloride **99870-66-8**, 10H-[1]benzothieno[3,2-b]indole, 7-chloro-10-[2-(dimethylamino)propyl]-3-methoxy-, hydrochloride **99871-76-3**, 10H-[1]benzothieno[3,2-b]indole, 10-[2-(dimethylamino)ethyl]-, hydrochloride **100000-78-9**, 10H-[1]benzothieno[3,2-b]indole, 10-[2-(diethylamino)ethyl]-3-nitro-, hydrochloride **100000-78-9**, 10H-[1]benzothieno[3,2-b]indole, 10-[2-(diethylamino)ethyl]-3-nitro-**100000-76-9**, 10H-[1]benzothieno[3,2-b]indole, 3-chloro-10-[2-(dimethylamino)propyl]-7-methoxy-, hydrochloride **100028-31-7**, 10H-[1]benzothieno[3,2-b]indole, 3-chloro-10-[2-(dimethylamino)propyl]-7-methoxy-, hydrochloride **100185-01-9**, 10H-[1]benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-7-methoxy-, hydrochloride **100385-12-0**, 10H-[1]benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-3,7-dimethoxy-, hydrochloride **101765-86-3**, 10H-[1]benzothieno[3,2-b]indole, 3-methoxy-10-[2-(diethylamino)ethyl]-, dihydrochloride **101942-68-8**, 10H-[1]benzothieno[3,2-b]indole, 7,8-dichloro-10-[2-(dimethylamino)propyl]-, hydrochloride **104480-61-9**, 10H-[1]benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-7-methoxy-, hydrochloride **104768-31-3**, 10H-[1]benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-, hydrochloride (Grepn. act)

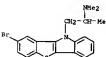
RN **437-65-1** CAPLUS  
CN **10H-[1]benzothieno[3,2-b]indole-10-ethanamine, 7-fluoro-8,N,.alpha.-trimeethyl-, monohydrochloride** (HCl) (CA INDEX NAME)



● HCl

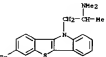
RN **437-66-1** CAPLUS  
CN **10H-[1]benzothieno[3,2-b]indole-10-ethanamine, 7-fluoro-8,N,.alpha.-trimeethyl-, monohydrochloride** (HCl) (CA INDEX NAME)

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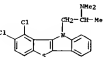
● HCl

RN **99783-74-7** CAPLUS  
CN **10H-[1]benzothieno[3,2-b]indole, 7-fluoro-10-[2-(dimethylamino)propyl]-, hydrochloride** (HCl, TCl) (CA INDEX NAME)



● HCl

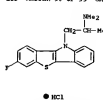
RN **99860-13-6** CAPLUS  
CN **10H-[1]benzothieno[3,2-b]indole, 6,9-dichloro-10-[2-(dimethylamino)propyl]-, hydrochloride** (HCl, TCl) (CA INDEX NAME)



● HCl

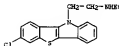
RN **99883-48-6** CAPLUS  
CN **10H-[1]benzothieno[3,2-b]indole, 6-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride** (HCl, TCl) (CA INDEX NAME)

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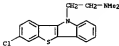
● HCl

RN **94429-05-5** CAPLUS  
CN **10H-[1]benzothieno[3,2-b]indole, 7-chloro-10-[2-(ethylamino)ethyl]-, hydrochloride** (HCl, TCl) (CA INDEX NAME)



● HCl

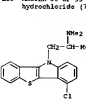
RN **98428-06-6** CAPLUS  
CN **10H-[1]benzothieno[3,2-b]indole, 7-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride** (HCl, TCl) (CA INDEX NAME)



● HCl

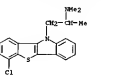
RN **98783-33-6** CAPLUS  
CN **10H-[1]benzothieno[3,2-b]indole, 6-bromo-10-[2-(dimethylamino)propyl]-, hydrochloride** (HCl, TCl) (CA INDEX NAME)

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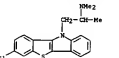
● HCl

RN **99883-47-7** CAPLUS  
CN **10H-[1]benzothieno[3,2-b]indole, 6-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride** (TCl) (CA INDEX NAME)

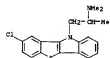


● HCl

RN **99883-49-9** CAPLUS  
CN **10H-[1]benzothieno[3,2-b]indole, 7-chloro-10-[2-(dimethylamino)propyl]-, hydrochloride** (TCl) (CA INDEX NAME)



XN 98883-51-3 CAPLUS  
CN 108-[1]benzothieno[3,2-b]indole,  
4-chloro-10-[2-(dimethylamino)propyl]-,  
hydrochloride (TC1) (CA INDEX NAME)



•x HCl

XN 98883-52-4 CAPLUS  
CN 108-[1]benzothieno[3,2-b]indole,  
3-chloro-10-[2-(dimethylamino)propyl]-,  
hydrochloride (TC1) (CA INDEX NAME)

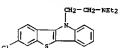


•x HCl

XN 99399-60-1 CAPLUS  
CN 108-[1]benzothieno[3,2-b]indole,  
2-chloro-10-[2-(dimethylamino)propyl]-,  
hydrochloride (TC1) (CA INDEX NAME)



L13 ANSWER 98 OF 99 CAPLUS COPYRIGHT 2002 ACN (Continued)

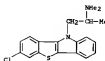


•x HCl

XN 99886-37-0 CAPLUS  
CN 108-[1]benzothieno[3,2-b]indole,  
7-chloro-10-[2-(dimethylamino)propyl]-,  
methanesulfonate (GCl, TC1) (CA INDEX NAME)

CH 1

CHN 98883-49-9  
CHF C13 M19 C1 M2 5



CH 2

CHN 75-75-2  
CHF C M4 O3 5



XN 99889-35-5 CAPLUS  
CN 108-[1]benzothieno[3,2-b]indole,  
3-chloro-10-[2-(dimethylamino)propyl]-7-  
ethoxy-, hydrochloride (TC1) (CA INDEX NAME)



•x HCl

XN 98999-62-3 CAPLUS  
CN 108-[1]benzothieno[3,2-b]indole,  
3-chloro-10-[2-(dimethylamino)propyl]-,  
hydrochloride (TC1) (CA INDEX NAME)



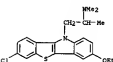
•x HCl

XN 99760-74-8 CAPLUS  
CN 108-[1]benzothieno[3,2-b]indole,  
7-chloro-10-[2-(dimethylamino)propyl]-3-  
methoxy-, hydrochloride (GCl, TC1) (CA INDEX NAME)



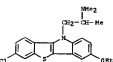
•x HCl

XN 99760-75-1 CAPLUS



•x HCl

XN 99889-36-6 CAPLUS  
CN 108-[1]benzothieno[3,2-b]indole,  
3-chloro-10-[2-(dimethylamino)propyl]-7-  
ethoxy-, hydrochloride (GCl, TC1) (CA INDEX NAME)



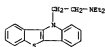
•x HCl

XN 99605-66-5 CAPLUS  
CN 108-[1]benzothieno[3,2-b]indole,  
7-chloro-10-[2-(dimethylamino)propyl]-3-  
methoxy-, hydrochloride (GCl, TC1) (CA INDEX NAME)



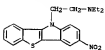
•x HCl

XN 99957-72-5 CAPLUS  
CN 108-[1]benzothieno[3,2-b]indole, 10-[2-(dimethylamino)ethyl]-,  
hydrochloride (GCl, TC1) (CA INDEX NAME)



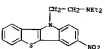
● x HCl

RN 100000-74-6 CAPLUS  
CN 100-[1]benzothieno[3,2-b]indole, 10-[2-(diethylamino)ethyl]-3-nitro-, hydrochloride (6Cl, 7Cl) (CA INDEX NAME)

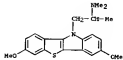


● x HCl

RN 100000-76-7 CAPLUS  
CN 100-[1]benzothieno[3,2-b]indole, 10-[2-(diethylamino)ethyl]-3-nitro-, hydrochloride (6Cl, 7Cl) (CA INDEX NAME)

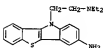


RN 100000-76-8 CAPLUS  
CN 100-[1]benzothieno[3,2-b]indole, 3-chloro-10-[2-(dimethylamino)propyl]-7-methoxy- (6Cl, 7Cl) (CA INDEX NAME)



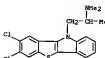
● x HCl

RN 101762-96-3 CAPLUS  
CN 100-[1]benzothieno[3,2-b]indole, 3-amino-10-[2-(diethylamino)ethyl]-, dihydrochloride (6Cl, 7Cl) (CA INDEX NAME)



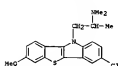
● 2 HCl

RN 101942-65-8 CAPLUS  
CN 100-[1]benzothieno[3,2-b]indole, 7,8-dichloro-10-[2-(diethylamino)propyl]-, hydrochloride (6Cl, 7Cl) (CA INDEX NAME)

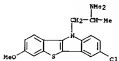


● x HCl

RN 104480-41-5 CAPLUS  
CN 100-[1]benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-7-methoxy-, hydrochloride (6Cl, 7Cl) (CA INDEX NAME)

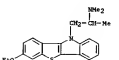


RN 100022-21-7 CAPLUS  
CN 100-[1]benzothieno[3,2-b]indole, 3-chloro-10-[2-(dimethylamino)propyl]-7-methoxy-, hydrochloride (6Cl, 7Cl) (CA INDEX NAME)



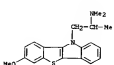
● y HCl

RN 100195-61-6 CAPLUS  
CN 100-[1]benzothieno[3,2-b]indole, 10-[2-(diethylamino)propyl]-7-methoxy-, hydrochloride (6Cl, 7Cl) (CA INDEX NAME)



● x HCl

RN 100195-12-8 CAPLUS  
CN 100-[1]benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-3,7-dimethoxy-, hydrochloride (6Cl, 7Cl) (CA INDEX NAME)



● HCl

RN 106785-31-3 CAPLUS  
CN 100-[1]benzothieno[3,2-b]indole, 10-[2-(dimethylamino)propyl]-, hydrochloride (6Cl, 7Cl) (CA INDEX NAME)



● HCl

113 ANSWER 99 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 ACCESSION NUMBER: 1562103967 CAPLUS  
 DOCUMENT NUMBER: 5713557  
 ORIGINAL REFERENCE NO.: 571793-1, 793-2  
 TITLE: Benzofuro[3,2-b]indoles  
 AUTHOR(S): Schroeder, D. C.; Cercorian, F. O.; Holden, C. A.;  
 Pulliam, M. C.  
 CORPORATE SOURCE: Ciba Pharm. Prods., Inc., Summit, NJ  
 SOURCE: J. Org. Chem. (1984), 49, 164-71  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

AB Several benzofuro[3,2-b]indoles were synthesized and some of the intermediates involved investigated. O-carbomethoxymethylallilic acid (75 g.) refluxed 3.5 hrs. with 71 g. HCl in 820 ml. anhyd. alc. and 117 ml. CGMS gave Et O-carbomethoxymethylalliloylate in 89% yield, mp 123-130 degrees.. Et benzoate (0.03 mole) added to 0.05 mole KOH and the appropriate Et alliloylate in anhyd. alc., the mixt. refluxed 12 hrs., cooled, filtered, and the filtrate evapd. gave a solid. This material collected and recrystd. from alc. gave the following substituted Et O-carbomethoxymethylalliloylates (5-substituent, % yield, and m.p. given): Cl, 33, 43-5 degrees.; I, 37, 75-5 degrees.; NO2, 76, 70-1 degrees.; Br, 76, 70-1 degrees.; The O-carbomethoxymethylalliloylate (0.22 mole) added to 0.22 mole NaOH in 280 ml. CGMS, the mixt. refluxed 4 hrs., cooled, poured into H2O and dil. NaOH, the layers sept., the aq. portion treated with dil. HCl gave the product. This material was recrystd. from alc. Three 3(2H)-benzofuranes were prod. as follows. The 2-carbomethoxy-3(2H)-benzofuranone (0.1 mole) was suspended in 500 ml. 5% NaOH and left at room temp. until the solid dissolves this time varied from 1 week to 4 weeks. Dil. H2SO4 was added, the product extd. with CGMS, evapd., and the product recrystd. from alc. The following 3(2H)-benzofuranes were obtained (3,2,2-substituent, % yield, and m.p. given): H, O, H, 65, 87 degrees.; Cl, O, H, 27, 114-16.0 degrees.; I, O, H, 27, 130-136 degrees.; H, O, CGMS, 10, 60-2 degrees.; Cl, O, CGMS, 65, 126-7 degrees.; I, O, CGMS, 95, 120-2 degrees.. Benzofuro[3,2-b]indoles were prod. by a known method. By limiting the batch size to 10 g. or less, the initial isothermal reaction was controlled when the benzofuranone was warmed with 7(2H)NO2. Benzofuro[3,2-b]indole was N-alkylated in the same manner as previously described for 4-alkylbenzo[3,2-b]indoles. The following benzofuro[3,2-b]indoles were thus obtained (substituents at R, 2, and 10

113 ANSWER 99 OF 99 CAPLUS COPYRIGHT 2002 ACS (Continued)  
 positions, % yield, m.p. given): H, H, H, 70, 197-8 degrees.; Cl, H, H, 25, 181-2 degrees.; H, NO2, H, 4, 215 degrees.; H, H, CH3CH2CH2CH2SO, 76, 109-10 degrees.; H, H, CH3CH2CH2CH2SO, 27, 231-6 degrees.. Monohydrates were prepd. in predominate by adding a slight excess of H2N4.H2O to the Et O-carbomethoxymethylalliloylate in alc. soln. and leaving 24 hrs. at room temp. when the amt. of H2N4 was increased to a 2- or 3-fold excess and the time lengthened to 3 days, formation of the dihydrate was enhanced. In both cases there was a mixt. of products, but these were sep'd by crystals. The following substituted O-carbomethoxymethylallilic acids were thus obtained (substituents at 1, 2, 3-positions, and 5-positions, % yield, and m.p. given): Cl, H, HNO2, 93, 117-18 degrees.; Cl, NO2, HNO2, 25, 153 degrees.; Cl, I, HNO2, 47, 133-5 degrees.; HNO2, H, HNO2, 34, 164-5 degrees.; HNO2, NO2, HNO2, 23, 174-6 degrees.. Phenylhydrazide of Et O-carbomethoxymethylalliloylate was prepd. in the same manner as the hydrazide, except that a reflux period of 3 hrs. was required. Although 2 equiv. of 7(2H)NO2 was used, only the monophenylhydrazide was isolated in 48% yield, m. 120-1 degrees.. The monohydrate of 5-bromo-O-carbomethoxymethylallilic acid was prepd. by the method used for the hydrazides. However, the product was sep'd. in a different fashion. After completion of the reaction, H2O was added to ppt. the monamide in 46% yield, m. 104-5 degrees.. The diamide was isolated from the mother liquor in 10% yield, m. 115 degrees.. The acylhydrazides were similarly prepd. A slight excess of the aldehyde was added to the hydrazide in alc., the mixt. refluxed 2-3 hrs., cooled, the product collected, and crystals. The following substituted O-carbomethoxymethylallilic acids were obtained (H of the 1-CH2, R2 of the 2-CH2CH2O2, and 5-substituent, % yield, and m.p. given): Cl, NO2, HNO-CH3CH2CH2CH2SO, 40, 179-6 degrees.; Cl, NO2, HNO-CH3CH2CH2CH2SO, 2, 93, 212-13 degrees.; Cl, I, HNO-CH3CH2CH2CH2SO, 4, 227-18 degrees.. 1-(Cl)CH2-2-(Cl)CH2-3-(HNO-CH2CH2O2) CGMS was obtained in 75% yield, m. 201-2 degrees. from the dihydrate with 31 g. chloral in 150 ml. iso-PrOH by heating 1.5 hrs. and recrystn. of the product from CHCl3-iso-PrOH. The following 3(2H)-benzofuranes were also obtained (R, 3-, 2-substituent, % yield, and m.p. given): H, O, CGMS, 7-5, 140-1 degrees.; H, HNO2, CO2Et, 65, 126-8 degrees.; H, HNO2, CO2Me, 37, 189-9 degrees.; H, CH3CH2CH2SO, CO2Et, 76, 137-8 degrees.; Cl, HNO2, CO2Et, 25, 243-4 degrees.; H, HNO2, H, 48, 164-70 degrees.; H, HNO2, CO2Et.

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 H, 95, 176-8 degrees.; I, HNO2, CO2Et, H, 40, 212-13 degrees..  
 IT 116357-35-8, 108-Benzofuro[3,2-b]indole, 10-[2-(diethylamino)propyl]-hydrochloride (preps. off)  
 MW 116357-35-8 CAPLUS  
 CN 108-Benzofuro[3,2-b]indole, 10-[2-(diethylamino)propyl]-hydrochloride (TCI) (CA INDEX NAME)



● HCl